

50+

BANK PO | CLERK

2016-2020 PREVIOUS YEARS'

Memory Based Book

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BANKING & STATIC
Awareness Questions

REASONING ABILITY

Direction (1-5): Study the following information carefully and answer the questions given below:

Eight persons A, B, C, D, E, F, G and H are going to watch movie in different months i.e. January, April, May, June, July, August, October and December but not necessarily in the same order.

F was going to watch movie in the month which has 30 days. There are three persons watching movie between F and C. H watches the movie just before A, who is watching the movie before B. B watches the movie just before C. H is watching the movie in the month which has maximum number of days but not in January. D is watching the movie in the month which has 30 days. G is watching the movie after D.

- If E is related to F and H is related to C then, in the same way D is related to which of the following?
(a) H (b) F (c) C
(d) B (e) A
- Which of the following statement is true as per the given information?
(a) D is going to watch movie after F
(b) Two persons are watching movie between G and B
(c) B is watching the movie in January
(d) A is watching the movie in August
(e) None is true
- The number of persons watching the movie between D and F is same as between B and ___?
(a) E (b) F (c) H
(d) A (e) None of these
- Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
(a) H (b) D (c) C
(d) B (e) G
- How many persons are watching the movie between B and D?
(a) Five (b) Three (c) Four
(d) Two (e) None

Direction (6-10): Study the following information carefully and answer the questions given below:

A certain number of persons are sitting in a row facing in north direction. Four persons are sitting between P and Q. F sits second to the right of Q. One person sits between F and S. S sits at eighth position from one of the extreme ends. D sits third to the right of S. H sits fifth to the left of Q. Eight persons are sitting to the left of Q.

- What is the maximum possible number of persons are sitting in a row?
(a) Twenty (b) Twenty-two (c) Twenty-six
(d) None of these (e) Twenty-five
- How many persons are sitting between P and S?
(a) Three (b) Five (c) None
(d) Two (e) More than five
- What is the position of D with respect to F?
(a) Fifth to the left
(b) Sixth to the right
(c) Second to the left
(d) Fifth to the right
(e) None of these
- How many persons are sitting to the left of H?
(a) One (b) Three (c) Two
(d) Four (e) None of these
- If A is sitting exactly in between the P and D, then what is the position of A with respect to S?
(a) Third to the left
(b) None of these
(c) Third to the right
(d) Second to the left
(e) Second to the right
- In the word 'CHLORINE', how many pairs of the letters have the same number of letters between them in the word as in alphabet?
(a) Four (b) Two (c) One
(d) Three (e) More than four

Direction (12-15): In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- If only conclusion I follows.
- If only conclusion II follows.
- If either conclusion I or II follows.
- If neither conclusion I nor II follows.
- If both conclusions I and II follow.

12. Statements: Only a few home is picnic. No picnic is mystery. All mystery is real.

Conclusions: I. Some mystery are not picnic.

II. All home being picnic is a possibility.

13. Statements: Only a few strong is tough. Only a few tough is dark

Conclusions: I. Some strong is not dark.

II. No tough is strong.

14. Statements: No network is dull. Only a few dull is fast. All fast is memory.

Conclusions: I. Some memory are definitely not network.

II. Some dull are not network.

15. Statements: All tennis is football. All football is basketball. No basketball is cricket.

Conclusions: I. No football is cricket.

II. All tennis is basketball.

Direction (16-20): Study the following information carefully and answer the questions given below:

Twelve persons are sitting in the two parallel rows containing six persons in each row in such a way that there is an equal distance between adjacent persons. In the first row, A, B, C, D, E and F are seated and all of them are facing north. In the second row, P, Q, R, S, T and U are seated and all of them are facing south. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row.

E sits 4th to the right of B. Q faces to E. The number of persons sit to the left of Q is same as sit to the right of S. F sits immediate to the left of D. A sits to the left of C and to the right of F. P faces the one who is an immediate neighbor of A. U is the only neighbor of Q. R sits to the right of T.

16. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

- (a) R (b) P (c) U
(d) C (e) B

17. Who among the following faces to F?

- (a) P (b) U (c) S
(d) R (e) Either (a) or (c)

18. What is the position of F with respect to B?

- (a) Immediate to the left
(b) 2nd to the left
(c) 3rd to the right
(d) 4th to the left
(e) Immediate to the right

19. Which of the following is true as per the given information?

- (a) S sits to the immediate right of P
(b) U faces to A
(c) F sits at the extreme end
(d) Both (b) and (c) true
(e) All are true

20. Who among the following sits 3rd to the right T?

- (a) U (b) None of these (c) S
(d) P (e) R

Direction (21-25): Study the following information carefully and answer the questions given below:

Eight persons i.e. F, J, K, M, N, P, S and V are sitting around a square table. Four of them are sitting at the corners and remaining are sitting at the middle side of the table. The persons sitting at the corners faces away from the center and the persons sitting at the middle sides of the table faces towards the center. All the information is not necessarily in the same order.

F sits at the middle side of the table. N sits at the immediate left of V. Two persons sit between F and J. V sits at the immediate right of J. Three persons sit between S and N. M is an immediate neighbor of S. M is not an immediate neighbor of J. P faces inside.

21. How many persons are sitting between F and J when counting from the left of F?

- (a) One (b) Two (c) Three
(d) Four (e) More than four

22. Four of the following five are alike in a certain way and hence form a group, which of the following does not belong to the group?

- (a) S (b) F (c) J
(d) K (e) N

23. Which of the following statement is true?

- (a) P sits second to the left of V
(b) N is an immediate neighbor of S
(c) Two persons sit between P and V
(d) M sits opposite to N
(e) J sits opposite to K.

24. Who among the following is sitting second to the left of M?

- (a) P (b) V (c) J
(d) F (e) None of these

25. Who among the following is sitting opposite to P?

- (a) V (b) J (c) F
(d) M (e) None of these

Direction (26-28): Study the following information carefully and answer the questions given below:

There are seven members in a family of three generation. A is mother of P. P is brother of G. K is married to G. S is aunt of M. K is child of L. S is sister of K.

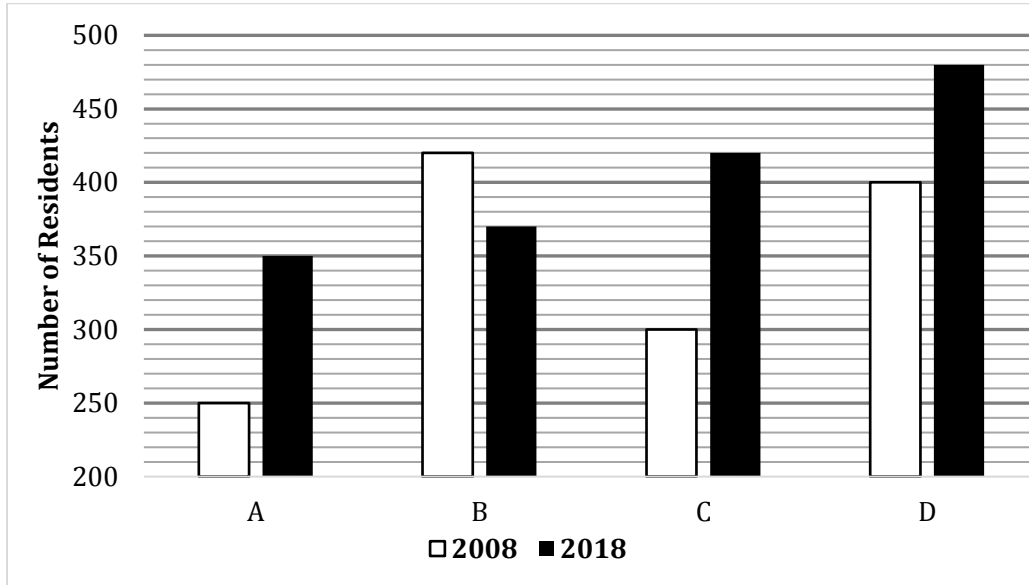
26. If L is married to J, then how J is related to G?
 (a) Grand daughter (b) Grand son
 (c) Son-in-law (d) Daughter-in-law
 (e) Can't be determined
27. If A is married to R, then how R is related to M?
 (a) Grand father (b) Brother-in-law (c) Uncle
 (d) None of these (e) Can't be determined
28. How S is related to G?
 (a) Sister (b) Sister-in-law (c) Aunt
 (d) Mother-in-law (e) None of these
29. If it is possible to make only one meaningful word with the 2nd, 5th, 8th and 9th letters of the word 'TRANSLATION' which would be the second letter of the word from the left? If more than one such word can be formed give 'Y' as the answer. If no such word can be formed, give 'Z' as your answer.
 (a) Y (b) S (c) T
 (d) Z (e) R
- Directions (30-33):** These questions are based on the following arrangement. Study the arrangement carefully to answer these questions.
 R Q D 8 H 9 L O P T E F M 6 I A 7 J 5 4 B U 2 G
30. If all the numbers are removed from the series, then which of the following element is 10th from the left end?
- (a) R (b) F (c) M
 (d) B (e) U
31. How many alphabets according to the English dictionary are between the elements which is 7th from the left end and 9th from the right end?
 (a) Five (b) Three (c) Seven
 (d) Ten (e) Eight
32. Which of the following element is 3rd from the right of the element which is 11th from the left end?
 (a) M (b) I (c) A
 (d) 6 (e) R
33. How many such numbers are there in the above arrangement, each of which is immediately preceded by a consonant and also immediately followed by a consonant?
 (a) Three (b) One (c) Two
 (d) Four (e) None of these
34. If in the number 485794362, 1 is added to each of the digit which is placed at even position and 1 is subtracted from each of the digit which is placed at odd position then how many digits are repeating in the number thus formed?
 (a) Only 5 (b) Both 1 & 2 (c) Only 8
 (d) Both 1 & 7 (e) None of these
35. Find the odd one out?
 (a) BEH (b) JMP (c) TWZ
 (d) CFI (e) KOP

QUANTITATIVE APTITUDE

Direction (36-45): Find the value of (?) in the following questions

36. $\sqrt{124+?+169} = 18$
 (a) 34 (b) 31 (c) 33
 (d) 35 (e) 32
37. $136 \div 2^2 \times ? = 17\% \text{ of } 500 \div 10$
 (a) 0.75 (b) 1.33 (c) 0.25
 (d) 1.66 (e) 0.5
38. $115 \div 5 + 12 \times 6 = ? + 64 \div 4 - 35$
 (a) 114 (b) 118 (c) 108
 (d) 116 (e) 111
39. $41\% \text{ of } 600 - 250 = ? - 77\% \text{ of } 900$
 (a) 693 (b) 675 (c) 684
 (d) 679 (e) 689
40. $\frac{360}{?} = 73 + 3^3$
 (a) 3.4 (b) 4.3 (c) 3.1
 (d) 3.6 (e) 3.9
41. $\frac{1}{2} - \frac{3}{5} + 4\frac{2}{3} = ? + \frac{5}{6}$
 (a) $3\frac{11}{15}$ (b) $5\frac{11}{15}$ (c) $3\frac{11}{12}$
 (d) $2\frac{11}{12}$ (e) $4\frac{11}{15}$
42. $65 \times 3 \div 13 + 67 - ?^2 = 81 \div 9 \times 2$
 (a) 9 (b) 5 (c) 12
 (d) 8 (e) 14
43. $(2744)^{1/3} + (18)^2 - 121 = ? - 69 \times 5$
 (a) 658 (b) 568 (c) 666
 (d) 656 (e) 562
44. $1111 \div 11 + 2002 \div 26 + 750 \div 25 = ?$
 (a) 204 (b) 212 (c) 208
 (d) 206 (e) 210
45. $\frac{5}{11} \times 121 + 1\frac{4}{9} \times 288 = 141 + ?$
 (a) 333 (b) 327 (c) 335
 (d) 330 (e) 329

Directions (46 – 50): Given bar graph shows the number of residents residing in 4 societies in years 2008, 2018. Read the data carefully and answer the questions carefully.



46. What is average of residents residing in society A in 2008, B in 2018, C in 2018 & D in 2008?
 (a) 355 (b) 360 (c) 365
 (d) 370 (e) 350
47. Residents residing in society B in 2008 are what percent more/less than average of residents residing in society D in 2008 & 2018?
 (a) $5\frac{6}{11}\%$ (b) $3\frac{6}{11}\%$ (c) $6\frac{6}{11}\%$
 (d) $7\frac{6}{11}\%$ (e) $4\frac{6}{11}\%$
48. Which society shows maximum percentage increase in no. of residents from year 2008 to 2018?
 (a) Both A & C (b) Both A & D (c) Both C & D
 (d) Both A & B (e) None of these
49. What is ratio of all residents in all societies in 2008 to that of in 2018?
 (a) 142 : 157 (b) 157 : 142 (c) 162 : 137
 (d) 137 : 162 (e) 97 : 114
50. What is difference between number of residents residing in society A & B in 2018 together and that of in society C & D together in 2008?
 (a) 30 (b) 24 (c) 20
 (d) 28 (e) 26
51. A shopkeeper sells two pens, he sold 1 pen at profit and other pen at loss. SP of each of the two pens is Rs.300 and profit percentage on 1 pen is equal to loss percentage on other. If overall loss of shopkeeper is 6.25%, then find difference between cost price of both pen.
 (a) Rs.350 (b) Rs.100 (c) Rs.240
 (d) Rs.160 (e) Rs.300
52. A man received Rs.3456 when he invested Rs.P at 12% p.a. at SI for 3 years. If he invested Rs.(P + 4400) at 15% p.a. at CI compounding annually for 2 years, then find the interest received by him.
 (a) Rs.4515 (b) Rs.4960 (c) Rs.4725
 (d) Rs.4185 (e) Rs.4345
53. Time taken by a boat to cover 162 km each in downstream and in upstream is 14 hours and 24 minutes. If speed of stream is 6 km/hr., then find the time taken by boat to cover 240 km in upstream.
 (a) $7\frac{1}{3}$ hours (b) $18\frac{2}{3}$ hours (c) $9\frac{1}{3}$ hours
 (d) $16\frac{2}{3}$ hours (e) $13\frac{1}{3}$ hours
54. C is 100% more efficient than B. A alone can complete a piece of work in 9 days and B & C together can complete the same work in $2\frac{2}{3}$ days. Find what portion of work will be completed, if A & B works together for 4 days.
 (a) $\frac{13}{18}$ (b) $\frac{8}{9}$ (c) $\frac{5}{6}$
 (d) $\frac{2}{3}$ (e) $\frac{17}{18}$
55. Ratio of age of P 2 years ago to age of R 2 years hence is 1 : 2 and Q's present age is 25% more than P's present age. If average of present age of P & R is 39 years, then find difference between P's age 5 years hence and R's present age.
 (a) 12 years (b) 17 years (c) 21 years
 (d) 15 years (e) 14 years

Directions (56-60): Solve the following quadratic equation and mark the answer as per instructions.

56. I. $x^2 - 2x - 143 = 0$ II. $y^2 - 169 = 0$
 (a) $x > y$
 (b) $x < y$
 (c) $x \leq y$
 (d) $x \geq y$
 (e) $x = y$ or no relation can be established
57. I. $x^2 - 7x - 18 = 0$ II. $y^2 - 19y + 90 = 0$
 (a) $x \leq y$
 (b) $x = y$ or no relation can be established
 (c) $x > y$
 (d) $x \geq y$
 (e) $x < y$
58. I. $2x^2 + 5x + 3 = 0$ II. $y^2 + 4y - 12 = 0$
 (a) $x \leq y$
 (b) $x > y$
 (c) $x = y$ or no relation can be established
 (d) $x < y$
 (e) $x \geq y$
59. I. $9x + 3y = 15$ II. $4x + 5y = 14$
 (a) $x = y$ or no relation can be established
 (b) $x > y$
 (c) $x \leq y$
 (d) $x < y$
 (e) $x \geq y$
60. I. $2x^2 - x - 1 = 0$ II. $3y^2 - 5y + 2 = 0$
 (a) $x \leq y$
 (b) $x < y$
 (c) $x = y$ or no relation can be established
 (d) $x \geq y$
 (e) $x > y$
- Directions (61-65):** Find the wrong number in the following number series.
61. 2, 3, 6, 15, 45, 156.5, 630
 (a) 2 (b) 15 (c) 3
 (d) 156.5 (e) 630
62. 36, 20, 12, 8, 6, 5.5, 4.5
 (a) 8 (b) 36 (c) 5.5
 (d) 4.5 (e) 6

63. 1, 3, 9, 31, 128, 651, 3913
 (a) 31 (b) 3 (c) 1
 (d) 3913 (e) 128
64. 2, 3, 10, 40, 172, 885, 5346
 (a) 40 (b) 885 (c) 172
 (d) 3 (e) 10
65. 5, 8, 16, 26, 50, 98, 194
 (a) 5 (b) 194 (c) 8
 (d) 16 (e) 98
66. A rectangular path of width 3m is surrounding the garden whose length is 3m more than its width. If cost of painting the path at rate of 0.5Rs/m² is Rs 273 then find the area of garden
 (a) 1525m² (b) 1804 m² (c) 1776 m²
 (d) 1906 m² (e) 1664 m²
67. In a class percentage of students who passed the exam is 60% and number of boys & girls who passed the exam is same. If boys who failed the exam are 200% more than girls who failed in exam then find the percentage of girls who failed out of total students
 (a) 9% (b) 13% (c) 10%
 (d) 12% (e) 15%
68. A man invested Rs.X at 15% p.a. at SI for 4 years and Rs. (1.35X) at 18% p.a. at SI for 3 years. If total interest received by man is Rs.15948, then find value of Rs. (3.12X).
 (a) Rs.50544 (b) Rs.42764 (c) Rs.32580
 (d) Rs.47372 (e) Rs.37440
69. A man covers $6\frac{1}{4}\%$ distance via bus at 80 km/hr, 25% of the distance via car at 120 km/hr., 30% distance via bicycle at 32 km/hr. and remaining distance via train at 62 km/hr. If total distance covered by man is 640km, then find the total time taken man during the entire journey.
 (a) $\frac{65}{6}$ hours (b) 13 hours (c) $\frac{44}{3}$ hours
 (d) $\frac{31}{2}$ hours (e) $\frac{71}{6}$ hours
70. Average weight of a class is 60kg and average weight of boys in the class is 80kg. Ratio of boys to girls in the class is 5 : 4. If there are 72 students in the class, then find the average weight of girls in the class.
 (a) 54 kg (b) 42 kg (c) 35 kg
 (d) 45 kg (e) 38 kg

ENGLISH LANGUAGE

Directions (71-78): Read the following passage carefully and answer the questions given below them.

Animals of all sorts live together in various ecosystems. Within these natural communities, the animals eat specific diets that connect them together in a food chain. The three

diets of animals include creatures that eat only plants, those that eat only meat, and animals that eat both plants and meat. Animals that eat plants exclusively are herbivores, and animals that eat only meat are carnivores. When animals eat both plants and meat, they are called omnivores. The balance of an ecosystem depends on the

presence of every type of animal. If one type of animal becomes too numerous or scarce, the entire balance of the ecosystem will change.

Carnivores will feed on herbivores, omnivores, and other carnivores in an ecosystem. A natural community depends on the presence of carnivores to control the populations of other animals. Large carnivores include wolves and mountain lions. A large carnivore might hunt down large herbivores such as elk and deer. Medium-sized carnivores include hawks and snakes, and these animals typically feed on rodents, birds, eggs, frogs, and insects. Examples of small carnivores include some smaller birds and toads. These carnivores may eat insects and worms. Carnivorous animals have strong jaws and sharp teeth to enable them to tear and rip prey. These animals often have long, sharp claws that they also use to tear prey. Carnivores depend on sufficient prey in the food chain to give them the food they need. If the herbivore population or the population of other carnivores declines in an ecosystem, carnivores may not survive.

With a diet comprised of only plants, herbivores can be surprisingly large animals. Examples of large herbivores include cows, elk, and buffalo. These animals eat grass, tree bark, aquatic vegetation, and shrubby growth. Herbivores can also be medium-sized animals such as sheep and goats, which eat shrubby vegetation and grasses. Small herbivores include rabbits, chipmunks, squirrels, and mice. These animals eat grass, shrubs, seeds, and nuts. An ecosystem must provide _____(1) plants to sustain herbivores, and many of them spend the majority of their lives eating to stay alive. If plant availability declines, herbivores may not have enough to eat. This could cause a decline in herbivore numbers, which would also impact carnivores. Herbivores usually have special biological systems to digest a variety of different plants. Their teeth also have special designs that enable them to rip off the plants and then grind them up with flat molars.

Omnivores have an advantage in an ecosystem because their diet is the most diverse. These animals can vary their diet depending on the food that is most plentiful, sometimes eating plants and other times eating meat. Herbivores have different digestive systems than omnivores, so omnivores usually cannot eat all of the plants that an herbivore can. Generally, omnivores eat fruits and vegetables freely, but they can't eat grasses and some grains due to digestive limitations. Omnivores will also hunt both carnivores and herbivores for meat, including small mammals, reptiles, and insects. Large omnivores include bears and humans. Examples of medium-sized omnivores include raccoons and pigs. Small omnivores include some fish and insects such as flies. Omnivore teeth often resemble carnivore teeth because of the need for tearing meat. Omnivores also have flat molars for grinding up food.

71. Why the balance of the ecosystem depends on each kind of animal?
- Scarcity or abundant of a single kind can cause disturbance in the ecosystem balance.
 - Carnivores and Omnivorous should be less in number than herbivorous.
 - Specific diets of each kind of animals bring food chain in sync.
 - Both (b) and (c)
 - None of these
72. How natural community depends upon Carnivores?
- They feed on grass eating, plant and meat eating animals.
 - They feed on other carnivores.
 - They control populations of other animals.
 - All (a), (b), and (c)
 - None of these
73. What is the threat to survival of carnivores?
- Insufficient number of preys in the food chain.
 - Decline in population of herbivores and other carnivores
 - Both (a) and (b)
 - Only (b)
 - None of these
74. Which of the following statement(s) is/are true about herbivores?
- Their diet include only vegetation
 - Their survival depends upon abundant plants
 - A major part of herbivores' life is spent on eating
 - They have a digestive system suitable to digest diverse kind of plants
 - All of the above
75. Why Omnivores are said to have an advantage?
- Diverse diet
 - Both (a) and (c)
 - Diet depends upon food which is available in plentiful amount.
 - Only (a)
 - Only (c)
76. Which is the following can fill the blank (1) as given in the passage, to make the sentence grammatically and contextually correct?
- Largely
 - Abundant
 - Diversity
 - Quite
 - None of these.
77. Which of the following words is most similar in meaning as BALANCE, highlighted in the given passage?
- Affecting
 - Poignant
 - Equilibrium
 - Considerate
 - None of these.
78. Which of the following words is most opposite in meaning with SUFFICIENT, highlighted in the given passage?
- Inadequate
 - Ample
 - Plenty
 - Enough
 - None of these.

Directions (79-84): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five options are given. Find out the appropriate word which fits the blank appropriately to make a grammatically and contextually correct sentence.

Two decades have passed since the mid-day meal became a part of the daily routine in government schools nationwide. In this long passage of time, procedures have _____ (79) but accidents continue to occur. Funds from the Centre flow smoothly though procurement of food items faces hurdles of different kinds. The latest _____ (80) in mid-meal stories concerns milk. Government norms entitle every child to receive 150 ml of milk as part of the mid-day meal. However, a video revealed recently how one litre of milk was mixed in a bucketful of water so that it would _____ (81) for the more than 80 children present that day in a school in rural Uttar Pradesh (U.P.). This was somewhat similar to the one reported from U.P. a couple of months ago. In the earlier incident, a video showed plain chapatis being served with salt. The two videos made it to the national media; they also proved useful for the officers who _____ (82) the mid-day meal scheme since they also depend on unauthorised videographers to learn about the reality in schools. Each such revelation leads to the same _____ (83) official statement: punish the guilty, locate the video-maker and deal with him/her. In the latest mid-meal story narrated above, authorities in U.P. have reportedly done the _____ (84) needful, i.e. they have fired the apparent culprit who is a para-teacher.

79. (a) Balances (b) Stabilized (c) Persistent
(d) Stabilizing (e) None of these.
80. (a) Stained (b) Retaliate (c) Accusations
(d) Blunder (e) None of these.
81. (a) Suffice (b) Assent (c) Patriotism
(d) Benefit (e) None of these.
82. (a) React (b) Negate (c) Supervise
(d) Unify (e) None of these.
83. (a) Amalgamate (b) Reflexive (c) Applicable
(d) Unlikely (e) None of these.
84. (a) Permit (b) Annihilate (c) Customary
(d) Stride (e) None of these.

Directions (85-89): Each question below has one blank, which is indicating that something has been omitted. Choose the most suitable option indicating the words that can be used to fill up the blank in the sentence to make it meaningfully complete.

85. Maharashtra has been _____ into a new party system over the past few years, with the BJP trying hard to replace the Congress as the dominant party in the State.

- (i) Investigated
(ii) Transitioning
(iii) Framing
(a) Only (i)
(b) Only (ii)
(c) Both (ii) and (iii)
(d) Both (i) and (ii)
(e) None of these.

86. The theme song of Downton Abbey along with a panoramic shot of the imposing monarchic structure is enough to _____ memories.

- (i) Evoke
(ii) Recall
(iii) Sent
(a) Only (i)
(b) Only (ii)
(c) Both (ii) and (iii)
(d) Both (i) and (ii)
(e) None of these.

87. With tomato and onion prices continuing to soar, the Centre is considering a _____ to increase cultivation of these staple vegetables in the north Indian region.

- (i) Proposal
(ii) Role
(iii) Novel
(a) Only (i)
(b) Only (ii)
(c) Both (ii) and (iii)
(d) Both (i) and (ii)
(e) None of these.

88. The Railways will speed up trains to reduce running time and maximise _____ of infrastructure across its network.

- (i) Collecting
(ii) Effectiveness
(iii) Utilisation
(a) Only (i)
(b) Only (ii)
(c) Both (ii) and (iii)
(d) Both (i) and (ii)
(e) None of these.

89. There could be more interest rate _____ by the RBI as some of the members of the monetary policy committee have observed that growth is yet to bottom out

- (i) Increment
(ii) Cuts
(iii) Growths
(a) Only (i)
(b) Only (ii)
(c) Both (ii) and (iii)
(d) Both (i) and (ii)
(e) None of these.

Directions (90-94): In each of the questions given below four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other. If the sentence is correct as it then select option (e) as your choice.

90. Today, thermal **accounts** (A) capacity **generation** (B) for about two-thirds the **installed**(C) generation **capacity**(D) in the country.
 (a) A-B (b) A-C (c) B-D
 (d) C-D (e) The sentence is correct
91. The IMF **followed**(A) the World Bank in **reducing**(B) its forecast for India's **economic**(C) growth in the current **financial**(D) year.
 (a) A-B (b) A-C (c) B-D
 (d) C-D (e) The sentence is correct
92. In **pursuit** (A) of novel ways to draw **caught** (B) to the Big Prize, the **Academy**(C) seems to have been **attention** (D) on the wrong foot again.
 (a) A-B (b) A-C (c) B-D
 (d) C-B (e) The sentence is correct
93. With **power** (A) growth, the **demand**(B) for **economic** (C) in India is only going to **increase**(D) further.
 (a) A-B (b) A-C (c) B-D
 (d) C-D (e) The sentence is correct
94. The Air Quality Index of Delhi **worsened**(A) slightly and **expected** (B) in the "poor" category and is **stayed** (C) to further **deteriorate**(D) from the last week of the month.
 (a) A-B (b) A-C (c) B-C
 (d) C-D (e) The sentence is correct

Direction (95-100): The following questions consist of a sentence. Four of the words of the sentences are marked in bold, which may or may not be correctly spelled. Option corresponding to misspelt word is your answer. If there is no misspelled word in the sentence then choose (d), i.e., 'All are correct' as your answer.

95. **Education**, for most of us, is a necessary public good central to the task of nation **building** and, like fresh air, is **necessary** to make our **communities** come alive.
 (a) Education (b) Building (c) Neccessary
 (d) Communities(e) All are correct
96. The Budget's **provisons** for collecting more in taxes from the **incomes** of the super-rich were aimed at **redistributing** wealth to bring about more **equitable** development.
 (a) Provisons (b) Incomes (c) Redistributing
 (d) Equitable (e) All are correct
97. Ideas **rejected** more than two **decades** ago during the **liberalisaetion** phase are back in **circulation**.
 (a) Rejected
 (b) Decades
 (c) Liberalisaetion
 (d) Circulation
 (e) All are correct
98. The proposal to **establish** a National Research Foundation, with an "**overarching** goal to enable a culture of research to **permeate** through our universities" needs to be **applauded** and widely supported.
 (a) Establish (b) Overarching (c) Permeate
 (d) Applauded (e) All are correct
99. **Policymaking** has three **essenteal** ingredients: technical elements, **administrative** inputs and political goals and **packaging**.
 (a) Policymaking
 (b) Essenteal
 (c) Administrative
 (d) Packaging
 (e) All are correct
100. The Central **Bureou** of Investigation has set up an Online Child Sexual **Abuse** and **Exploitation** Prevention/**Investigation** Unit.
 (a) Bureou (b) Abuse (c) Exploitation
 (d) Investigation (e) All are correct

Solutions

REASONING ABILITY

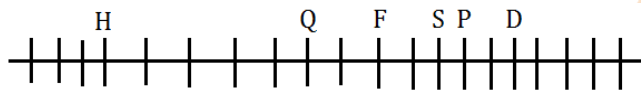
Direction (1-5):

Month	Persons
January	E
April	D
May	G
June	F
July	H
August	A
October	B
December	C

1. (a); 2. (d); 3. (c);

4. (b); 5. (c);

Direction (6-10):



6. (a); 7. (c); 8. (d);

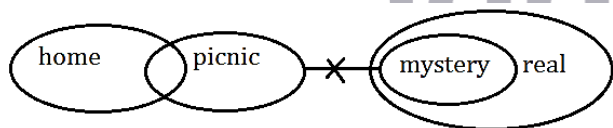
9. (b); 10. (e);

11. (c);

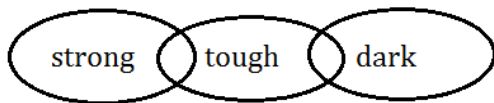
C H L O R I N E

Direction (12-15):

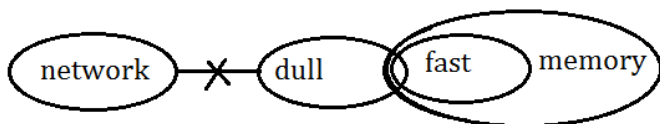
12. (a);



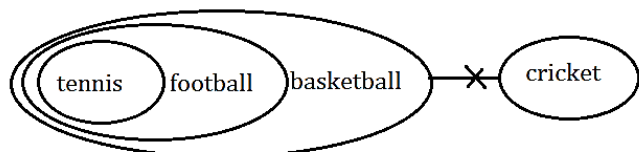
13. (d);



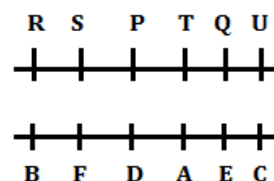
14. (e);



15. (e);



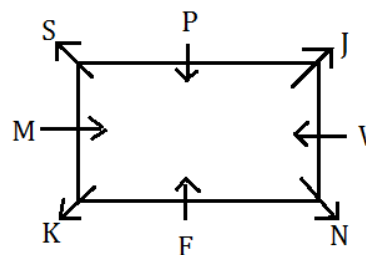
Direction (16-20):



16. (b); 17. (c); 18. (e);

19. (a); 20. (e);

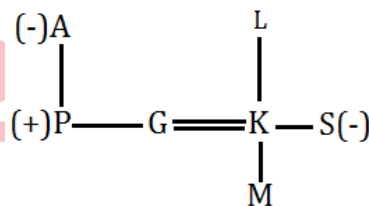
Direction (21-25):



21. (d); 22. (b); 23. (e);

24. (a); 25. (c);

Direction (26-28):



26. (e); 27. (a); 28. (b);

29. (c); "STIR"

Direction s (30-33):

30. (b); 31. (d); 32. (d);

33. (c);

34. (c);

4 8 5 7 9 4 3 6 2
3 9 4 8 8 5 2 7 1

35. (e);

QUANTITATIVE APTITUDE

36. (b); $293 + ? = 324$
 $? = 31$

37. (c); $34 \times ? = \frac{17}{100} \times 500 \times \frac{1}{10}$
 $? = \frac{8.5}{34} = 0.25$

38. (a); $23 + 72 = ? + 16 - 35$
 $? = 114$

39. (e); $246 - 250 = ? - 693$
 $? = 689$

40. (d); $\frac{360}{?} = 73 + 27$
 $? = 3.6$

41. (a); $\frac{1}{2} - \frac{3}{5} + \frac{14}{3} = ? + \frac{5}{6}$
 $\frac{15-18+140}{15} - \frac{5}{6} = ?$
 $? = \frac{30}{112} = 3\frac{11}{15}$

42. (d); $15 + 67 - ?^2 = 18$
 $? = 8$

43. (e); $14 + 324 - 121 = ? - 345$
 $? = 562$

44. (c); $101 + 77 + 30 = ?$
 $? = 208$

45. (d); $55 + 416 = 141 + ?$
 $? = 330$

46. (b); required average = $\frac{250+370+420+400}{4} = 360$

47. (e); average of total residents in society D in 2008 & 2018 = $\frac{400+480}{2} = 440$
 Required % = $\frac{440-420}{440} \times 100 = 4\frac{6}{11}\%$

48. (a); society A = $\frac{350-250}{250} \times 100 = 40\%$
 Society B = $\frac{370-420}{420} \times 100 = 11.9\%$ (decrease)
 Society C = $\frac{420-300}{420} \times 100 = 40\%$
 Society D = $\frac{480-400}{400} \times 100 = 20\%$
 Maximum increase in society A & C

49. (d); all residents in 2008 = $250 + 420 + 300 + 400 = 1370$
 Total residents in 2018 = $350 + 370 + 420 + 480 = 1620$
 Required ratio = $1370 : 1620 = 137 : 162$

50. (c); required difference = $(350 + 370) - (300 + 400) = 20$

51. (d); Cost price of both pens = $(300 \times 2) \times \frac{100}{93.75} = \text{Rs.}640$

Let profit percentage and loss percentage earned on both pens be $x\%$.

ATQ,
 $300 \times \frac{100}{100+x} + 300 \times \frac{100}{100-x} = 640$

$$30000 \times \frac{200}{(100)^2 - x^2} = 640$$

$$\frac{1}{10000 - x^2} = \frac{1}{9375}$$

$$x = 25$$

Required difference = $300 \times \frac{100}{100-25} - 300 \times \frac{100}{100+25}$

$$= 400 - 240 = \text{Rs.}160$$

52. (a); ATQ,
 $\frac{P \times 12 \times 3}{100} = 3456$

$$P = \text{Rs.}9600$$

Required amount

$$= \left((9600 + 4400) \left(1 + \frac{15}{100} \right)^2 - (9600 + 4400) \right)$$

$$= 18515 - 14000$$

$$= \text{Rs.}4515$$

53. (e); Let speed of boat in still water be x km/hr.

ATQ,
 $\frac{162}{x+6} + \frac{162}{x-6} = \frac{72}{5}$

$$x = 24 \text{ kmph}$$

Required time = $\frac{240}{24-6} = 13\frac{1}{3}$ hours

54. (e); Let efficiency of B be x units/day

So, efficiency of C = $x \times \frac{200}{100}$

$$= 2x \text{ units/day}$$

Now, total work = $(x + 2x) \times \frac{8}{3} = 8x$ units

Hence, efficiency of A = $\frac{8x}{9}$ units/day

Work completed by A & B together in 4 days =

$$\left(\frac{8x}{9} + x \right) \times 4 = \frac{68x}{9} \text{ units}$$

Required portion = $\frac{68x}{8x} = \frac{17}{18}$

55. (b); Let present age of P be $4x$ years.

So, present age of Q = $\frac{125}{100} \times 4x$

$$= 5x \text{ years}$$

Now, present age of R = $(4x - 2) \times 2 - 2$

$$= (8x - 6) \text{ years}$$

ATQ,

$$\frac{4x+8x-6}{2} = 39$$

$$x = 7$$

Required difference = $(8 \times 7 - 6) - (4 \times 7 + 5) = 50 - 33 = 17$ years

56. (e); I. $x^2 - 13x + 11x - 143 = 0$
 $(x - 13)(x + 11) = 0$
 $x = -11, 13$
II. $y^2 = 169$
 $y = \pm 13$
 clearly, no relation can be established

57. (a); I. $x^2 - 9x + 2x - 18 = 0$
 $(x - 9)(x + 2) = 0$
 $x = -2, 9$
II. $y^2 - 10y - 9y + 90 = 0$
 $(y - 10)(y - 9) = 0$
 $y = 9, 10$
 clearly, $x \leq y$

58. (c); I. $2x^2 + 3x + 2x + 3 = 0$
 $(x + 1)(2x + 3) = 0$
 $x = -1, -\frac{3}{2}$
II. $y^2 + 6y - 2y - 12 = 0$
 $(y - 2)(y + 6) = 0$
 $y = 2, -6$
 clearly, no relation can be established

59. (d); (II) $\times 9 -$ (I) $\times 4$
 On solving,
 $x = 1, y = 2$
 clearly, $x < y$

60. (c); I. $2x^2 - 2x + x - 1 = 0$
 $(2x + 1)(x - 1) = 0$
 $x = -\frac{1}{2}, 1$
II. $3y^2 - 3y - 2y + 2 = 0$
 $(3y - 2)(y - 1) = 0$
 $y = \frac{2}{3}, 1$
 clearly, no relation

61. (d); Wrong number = 156.5
 Pattern of series-
 $2 \quad 3 \quad 6 \quad 15 \quad 45 \quad 157.5 \quad 630$
 $\times 1.5 \quad \times 2 \quad \times 2.5 \quad \times 3 \quad \times 3.5 \quad \times 4$
 So, there should be 157.5 in place of 156.5.

62. (c); Wrong number = 5.5
 Pattern of series-
 $36 \quad 20 \quad 12 \quad 8 \quad 6 \quad 5 \quad 4.5$
 $-16 \quad -8 \quad -4 \quad 2 \quad -1 \quad -0.5$
 $\div 2 \quad \div 2 \quad \div 2 \quad \div 2 \quad \div 2$
 So, there should be 5 in place of 5.5

63. (e); Wrong number = 128
 Pattern of series -
 $1 \quad 3 \quad 9 \quad 31 \quad 129 \quad 651 \quad 3913$
 $\times 1+2 \quad \times 2+3 \quad \times 3+4 \quad \times 4+5 \quad \times 5+6 \quad \times 6+7$
 So, there should be 129 in place of 128

64. (a); Wrong number = 40
 Pattern of series -
 $2 \quad 3 \quad 10 \quad 39 \quad 172 \quad 885 \quad 5346$
 $\times 1+1^2 \quad \times 2+2^2 \quad \times 3+3^2 \quad \times 4+4^2 \quad \times 5+5^2 \quad \times 6+6^2$
 So, there should be 39 in place of 40.

65. (d); Wrong number = 16
 Pattern of series -
 $5 \quad 8 \quad 14 \quad 26 \quad 50 \quad 98 \quad 194$
 $\times 2-2 \quad \times 2-2 \quad \times 2-2 \quad \times 2-2 \quad \times 2-2 \quad \times 2-2$
 So, there should be 14 in place of 16.

66. (b); Let width of garden = x m
 So length of garden = $(x+3)$ m
 According to question
 $(x + 6)(x + 9) - x(x + 3) = \frac{273}{0.5}$
 $x^2 + 15x + 54 - x^2 - 3x = 546$
 $12x + 54 = 546$
 $x = 41$
 Area of garden = 41×44
 $= 1804 \text{ m}^2$

67. (c); Let total students be 100x
 Then passed students be 60x
 Passed boys & girls are 30x each.
 Let failed girls = y
 Now
 $y + 3y = 40x$
 $4y = 40x$
 $y = 10x$
 Required percentage = 10%

68. (e); ATQ,
 $\frac{X \times 15 \times 4}{100} + \frac{1.35X \times 18 \times 3}{100} = 15948$
 $0.60X + 0.729X = 15948$
 $X = 12000$
 Required value = 3.12×12000
 $= \text{Rs.} 37440$

69. (e); Distance covered by bus = $\frac{25}{400} \times 640$
 $= 40 \text{ km}$
 Distance covered by car = $\frac{25}{100} \times 640$
 $= 160 \text{ km}$
 Distance covered by bicycle
 $= \frac{30}{100} \times 640 = 192 \text{ km}$
 And distance covered by train
 $= (640 - (40 + 160 + 192)) = 248 \text{ km}$
 Required time = $\frac{40}{80} + \frac{160}{120} + \frac{192}{32} + \frac{248}{62} = \frac{71}{6}$ hours

70. (c); Number of boys in the class = $72 \times \frac{5}{9} = 40$
 Number of girls in the class = $72 \times \frac{4}{9} = 32$
 Required average = $\frac{(60 \times 72) - (40 \times 80)}{32} = \frac{4320 - 3200}{32} = 35 \text{ kg}$

ENGLISH LANGUAGE

71. (a); Refer to the first paragraph. The hint can be drawn from the lines, 'The balance of an ecosystem depends on the presence of every type of animal. If one type of animal becomes too numerous or scarce, the entire balance of the ecosystem will change.'
In this way, **option (a)** is justified with the given lines. Hence, it is the correct answer choice.
72. (d); Refer to the second paragraph. The hint can be drawn from the lines, 'Carnivores will feed on herbivores, omnivores, and other carnivores in an ecosystem. A natural community depends on the presence of carnivores to control the populations of other animals.'
Option (a), (b), and (c) are justified with the above lines. Hence option (d) **[All (a), (b), and (c)]** is the right answer choice.
73. (c); Refer to the last part of second paragraph. The hint can be drawn from the lines, 'Carnivores depend on sufficient prey in the food chain to give them the food they need. If the herbivore population or the population of other carnivores declines in an ecosystem, carnivores may not survive.'
From these lines, both **option (a) and (b)** are justifies. Hence, **option (c) [Both (a) and (b)]** is the right answer choice.
74. (e); Refer to the third paragraph. The hint can be drawn from the lines;
Option (a): With a diet comprised of only plants, herbivores can be surprisingly large animals.
Option (b): An ecosystem must provide abundant plants to sustain herbivores
Option (c): many of them spend the majority of their lives eating to stay alive
Option (d): Herbivores usually have special biological systems to digest a variety of different plants.
Hence, **option (e), [All of the above]** is the right answer choice.
75. (b); Refer to the fourth paragraph. The hint can be drawn from the lines:
Option (a): Omnivores have an advantage in an ecosystem because their diet is the most diverse.
Option (c): These animals can vary their diet depending on the food that is most plentiful, sometimes eating plants and other times eating meat.
Hence, **option (b), [Both (a) and (c)]** is the right answer choice.
76. (b); **Abundant** can fill in the blank (1) to make the sentence grammatically and contextually correct. Hence, option (b) is the right answer choice.
77. (c); **Equilibrium** is most similar in meaning with the given word. Hence, **option (c)** is the right answer choice.
78. (a); **Inadequate** is most opposite in meaning with the given word. Hence, **option (a)** is the right answer choice.
79. (b); **Stabilized** can fit the blank (79) to make it grammatically and contextually correct sentence. Hence, option (b) is the right answer choice.
80. (d); **Blunder** can fit the blank (80) to make it grammatically and contextually correct sentence. Hence, option (d) is the right answer choice.
81. (a); **Suffice** can fit the blank (81) to make it grammatically and contextually correct sentence. Hence, option (a) is the right answer choice.
82. (c); **Supervise** can fit the blank (82) to make it grammatically and contextually correct sentence. Hence, option (c) is the right answer choice.
83. (b); **Reflexive** can fit the blank (83) to make it grammatically and contextually correct sentence. Hence, option (b) is the right answer choice.
84. (c); **Customary** can fit the blank (84) to make it grammatically and contextually correct sentence. Hence, option (c) is the right answer choice.
85. (b); From the given options, (i) will make the given sentence grammatically incorrect whereas option (iii) is out of context. So, only 'Transitioning' will fit the given blank to make the given sentence both grammatically and contextually correct. Hence, the correct answer choice would be option (b)
86. (d); Evoke means bring or recall.
So, from the given options, 'Evoke' and 'Recall' fits the given blank to make the given sentence both grammatically and contextually correct. Hence, the correct answer choice would be option (d)

- 87. (a);** From the given options, option (ii) and (iii) will make the given sentence contextually meaningless. So, only 'proposal' fits the given blank to make the given sentence both grammatically and contextually correct. Hence, the correct answer choice would be option (a)
- 88. (c);** As the given sentence is talking about increasing the speed of trains to reduce running time and about the infrastructure across the railway network, the appropriate filler for the given blank would be 'Effectiveness' and 'utilisation'. Hence, the correct answer choice would be option (c)
- 89. (b);** Taking hint from the last part of the sentence which is talking about the low growth, the appropriate filler for the given blank would be 'cuts'. Hence, the correct answer choice would be option (b)
- 90. (a);** In the given sentence, 'Accounts' and 'Generation' at their current position fails to impart valid meaning to the sentence. But interchanging them will make the given sentence both grammatically and contextually correct. Hence, the correct answer choice would be option (a)
- 91. (e);** All of the given highlighted words are correct at their respective position. Hence, the correct answer choice would be option (e)
- 92. (c);** In the given sentence, 'caught' and 'attention' at their current position are incorrect as they fails to impart valid meaning to the sentence but interchanging them will make the sentence both grammatically and contextually correct. Hence, the correct answer choice would be option (c)
- 93. (b);** In the given question, 'Economic' at its current position fails to impart reasonable meaning to the sentence, also, it is not in accordance with the sentence structure. But, interchanging it with 'Power' will make the given sentence both grammatically and contextually correct. Hence, the correct answer choice would be option (b)
- 94. (c);** In the given statement, 'stayed' and 'expected' at their current position fails to add a reasonable sense in the sentence but interchanging them will make the given sentence both grammatically and contextually correct. Hence, the correct answer choice would be option (c)
- 95. (c);** From the given words, spelling of 'Necessary' is incorrect, instead it should be 'Necessary' which means essential. Hence, the correct answer choice would be option (c)
- 96. (a);** From the given words, spelling of 'Provisons' is incorrect instead it should be 'Provisions' which means the action of providing or supplying something for use. Hence, the correct answer choice would be option (a)
- 97. (c);** From the given options, spelling of 'Liberalisaetion' is incorrect instead it should be 'Liberalisation' which means the removal or loosening of restrictions on something. Hence, the correct answer choice would be option (c)
- 98. (e);** There is no spelling error in the highlighted words. Hence, the correct answer choice would be option (e)
- 99. (b);** From the given options, spelling of 'essenteal' is incorrect instead it should be 'essential' which means absolutely necessary; extremely important. Hence, the correct answer choice would be option (b)
- 100. (a);** From the given words, spelling of 'Bureou' is incorrect instead it should be 'Bureau' which means an office or department for transacting particular business. Hence, the correct answer choice would be option (a)



50+

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REASONING ABILITY

Directions (1 - 5): Study the given information carefully and answer the given questions:

Seven persons A, B, C, D, E, F and G are watching movies on different days of the week (starting on Monday and ending on Sunday) not necessarily in the same order. B is going to watch movie on Tuesday. F is going to watch movie on adjacent day of B. There are three days gap between the days on which F and A are going to watch movie. G is going to watch movie just after D. There are as many persons are watching movie between A and G, same as between D and C. C is watching movie before D but not just before.

- Who among the following is going to watch movie on Wednesday?
(a) B (b) C (c) F
(d) E (e) None of these
- Who among the following person is going to watch movie just after A?
(a) C (b) D (c) F
(d) G (e) None of these
- If F and G interchange their days of watching movie, then on which day G is watching movie?
(a) Monday (b) Wednesday (c) Friday
(d) Saturday (e) None of these
- C is watching movie on which day?
(a) Friday (b) Saturday (c) Wednesday
(d) Thursday (e) Tuesday
- How many persons are watching movie between B and A?
(a) Two (b) Three (c) One
(d) Four (e) None of these

Directions (6-8): Study the following information carefully and answer the questions given below:

There are six persons who all are of different height. A is taller than C and D but shorter than E. The one who is third shortest is 102cm in height. B is taller than A. E is not the tallest. The one who is second tallest is 119cm in height. Neither A nor C is the third shortest person among all. C is not the shortest among all. F is taller than D.

- Who among the following is the second tallest?
(a) F (b) E (c) A
(d) C (e) None of these
- What will be the possible height of A?
(a) 120cm (b) 100cm (c) 112cm
(d) 101cm (e) None of these

8. Who among the following is third shortest?

- (a) A (b) C (c) B
(d) F (e) None of these

Direction (9-13): Study the following information carefully and answer the given questions.

Twelve persons are sitting in two parallel rows at equal distance facing each other. Q, R, S, T, U and V are sitting in Row 1 facing south. B, C, D, E, F and G are sitting in Row 2 facing north (but not necessarily in the same order).

G sits third to the right of B and one of them sits at the end of the row. Q sits at the right end of the row. Three persons sit between Q and T. F sits to the immediate left of G. Two persons sit between F and C. C who faces R sits to the immediate right of E. S faces D. U sits to the immediate left of S.

- Which of the following pair sits at the extreme ends of the Row 2?
(a) B & E (b) G & E (c) B & C
(d) G & C (e) None of these
- Who sits second to the left of the person facing V?
(a) B (b) D (c) F
(d) C (e) G
- What is the position of U with respect to R?
(a) Third to the left
(b) Second to the left
(c) Second to the right
(d) Third to the right
(e) None of these
- Who is facing F?
(a) T (b) U (c) Q
(d) S (e) None of these
- If the positions of all persons sitting in Row 2 are arranged as per the English alphabetical order from left to right, then who among the following faces D?
(a) Q (b) R (c) S
(d) T (e) None of these

Directions (14-16): In each of the following questions some statements are given and these statements are followed by two conclusions numbered (I) and (II). You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

Give answer:

- (a) If only (I) conclusion follows.
 (b) If only (II) conclusion follows.
 (c) If either (I) or (II) follows.
 (d) If neither (I) nor (II) follows.
 (e) If both (I) and (II) follow.

14. Statements: All DSLR are Lenses.
 Some Camera are DSLR.
Conclusions: I. All camera is lenses.
 II. Some lenses are camera.

15. Statements: All Label are Packets.
 All Mobiles are Cables.
 Some Mobiles are packets.
Conclusions: I. Some Label is mobile.
 II. Some Cables are Label.

16. Statements: Some Book are Pen.
 Some Pens are Pencil.
Conclusions: I. No Book is pencil.
 II. All Pencils are Book.

Directions (17-21): Study the following information to answer the given questions

Eight students A, B, C, D, E, F, G and H are sitting around a square table in such a way four of them sit at four corners while four sit in the middle of each of the four sides. The one who sit at the corners face the centre and others facing outside.

A who faces the centre sits third to the left of F. E who faces the centre is not an immediate neighbour of F. Only one person sits between F and G. D sits second to right of B. B faces the centre. C is not an immediate neighbour of A.

- 17.** Which one does not belong to that group out of five ?
 (a) B (b) C (c) E
 (d) D (e) A
- 18.** Which will come in the place of ?
 BCE EHA AGD ?
 (a) DFB (b) DGA (c) DCG
 (d) DCF (e) None of these
- 19.** What is the position of G with respect to C ?
 (a) Third to the right
 (b) Second to the left
 (c) Second to the right
 (d) Fourth to the right
 (e) None of these
- 20.** Who sits third to the left of B ?
 (a) H (b) A (c) G
 (d) F (e) None of these
- 21.** Which is true from the given arrangement?
 (a) G faces the centre
 (b) B faces outside
 (c) H faces inside
 (d) A face the centre
 (e) None of these

- 22.** How many pairs of letter are there in the word 'DECLARING' (both backward and forward), each of which has as many letters between them as in the word as there are in the English alphabet?
 (a) One (b) three (c) Four
 (d) Five (e) None of these

Directions (23-25): Study the following information carefully and answer the questions given below:

Point C is 15m in the east of point F. Point A is 10m west of point B which is 15m north of point H. Point D is 15 west of point E. Point B is 15 m south of point C. Point E is 5m east of point H. Point G is 15m north of point A.

- 23.** In which direction and at what distance is point G from point C?
 (a) 10m east (b) 5m, east (c) 10m, west
 (d) 5m, west (e) None of these
- 24.** Point D is in which direction with respect to point A?
 (a) South (b) North (c) North East
 (d) West (e) None of these
- 25.** Point F is in which direction with respect to point E?
 (a) North East (b) South West (c) South East
 (d) North West (e) None of these

Directions (26-30): Following questions are based on the five words given below, Study the following words and answer the following questions.

TAP NOT MAT PQR STB

(The new words formed after performing the mentioned operations may not necessarily be a meaningful English word.)

- 26.** If the given words are arranged in the order as they appear in a dictionary from right to left, which of the following will be second from the left end?
 (a) MAT (b) NOT (c) STB
 (d) TAP (e) None of these
- 27.** How many letters are there in the English alphabetical series between the third letter of the word which is second from the left end and the second letter of the word which is third from the right end?
 (a) 20 (b) 19 (c) 18
 (d) 17 (e) None of these
- 28.** If in each of the word given, the second alphabet is replaced by its following alphabet and third alphabet is replaced by its preceding alphabet as per the English alphabetical order, then how many words thus formed will be without any vowels?
 (a) None (b) One (c) Two
 (d) Three (e) Four
- 29.** If the positions of the first and the third alphabet in each of the words given are interchanged, then how many meaningful word will be formed?
 (a) Two (b) One (c) Four
 (d) Three (e) None

30. If in each of the given words, every consonant is changed to its previous letter and every vowel is changed to its next letter according to the English alphabetical series, then in how many words, thus formed, at least one vowels will appear?
 (a) None (b) One (c) Two
 (d) Three (e) None of these

Directions (31-35): Study the following information carefully and answer the questions given below:

There are seven persons i.e. A, B, C, D, E, F and G. They all belongs to the different cities i.e. Kolkata, Mumbai, Chennai, Pune, Lucknow, Ahmadabad and Delhi but not necessarily in the same order. D belongs to Pune. Neither A nor F belongs to Kolkata. B belongs to Ahmedabad. C does not belong to Kolkata and Lucknow. G belongs to Mumbai. A does not belongs to Lucknow and Chennai.

31. Who among the following belongs to Kolkata?
 (a) A (b) D (c) F
 (d) G (e) None of these

32. Which of the following statement is true?
 (a) A belongs to Chennai
 (b) G belongs to Delhi
 (c) E belongs to Kolkata
 (d) F belongs to Pune
 (e) None of these

33. F belongs to which of the following City?
 (a) Chennai (b) Mumbai (c) Delhi
 (d) Lucknow (e) None of these

34. Which of the following combination is true?
 (a) A-Delhi
 (b) D-Pune
 (c) E-Kolkata
 (d) All are correct
 (e) All are incorrect

35. A belongs to which of the following city?
 (a) Delhi (b) Mumbai (c) Kolkata
 (d) Chennai (e) None of these

QUANTITATIVE APTITUDE

Directions (36-40): What will come in the place of question (?) mark in the following number series.

36. 200, 193, 179, 158, ?, 95
 (a) 135 (b) 133 (c) 132
 (d) 130 (e) 128
37. 3, 43, 81, 115, 143, ?
 (a) 163 (b) 172 (c) 166
 (d) 160 (e) 168
38. 1, 6, 25, 76, 153, ?
 (a) 152 (b) 154 (c) 153
 (d) 155 (e) 156
39. 50, 54, 45, 61, 36, ?
 (a) 66 (b) 72 (c) 75
 (d) 80 (e) 84
40. 9, 45, 180, 540, ?, 1080
 (a) 720 (b) 900 (c) 1080
 (d) 1200 (e) 960
41. If the sum of upstream and downstream speed is 36 km/hr and the speed of the current is 3km/hr . Then find time taken to cover 52.5 km in downward?
 (a) 2 hr (b) 2.5 hr (c) 3 hr
 (d) 3.5 hr (e) 4 hr
42. A sum becomes 1.6 times of itself in five years at simple rate of interest. Find rate of interest per annum?
 (a) 10% (b) 12.5% (c) 15%
 (d) 12% (e) 8.5%

Directions (43-52): Calculate the exact value of the 'x' in the given following questions.

43. $x^2 + (9^2 + 34) \div 5 = 39$
 (a) 5 (b) 4 (c) 8
 (d) 6 (e) 9
44. $6 \times 16 \times 5 \div 3 - x^2 = 96$
 (a) 6 (b) 7 (c) 8
 (d) 9 (e) 5
45. $\sqrt{124 + x + 169} = 18$
 (a) 27 (b) 28 (c) 29
 (d) 30 (e) 31
46. $28^2 - x^3 = 7^3 + 225$
 (a) 6 (b) 8 (c) 4
 (d) 7 (e) 5
47. $298 - 13^2 - 2^3 = x \times 11$
 (a) 51 (b) 41 (c) 21
 (d) 11 (e) 31
48. $\sqrt[3]{729} + 3\frac{3}{5} \div x = \sqrt{16 \times 9}$
 (a) 1 (b) 1.4 (c) 1.2
 (d) 1.6 (e) 2
49. $x\% \text{ of } 300 + \sqrt{256} = 243 \div 3 + 7$
 (a) 18 (b) 24 (c) 16
 (d) 28 (e) 32
50. $x \times 3 \div 8 = \sqrt[3]{512} \times \sqrt{12^2}$
 (a) 256 (b) 512 (c) 64
 (d) 128 (e) 320

51. $136 \div 2^2 \times x = 17\%$ of $500 \div 10$
 (a) 1 (b) 0.5 (c) 0.25
 (d) 0.125 (e) 1.25
52. $1836 \div x \div 9 = 12$
 (a) 9 (b) 11 (c) 13
 (d) 15 (e) 17
53. Ratio of present ages of two persons A and B is 3:2 and after four years ratio of their age (B:A) become 7:10. Then find the present age of B?
 (a) 20 years (b) 18 years (c) 24 years
 (d) 36 years (e) 30 years
54. The difference between Circumference of circle A and diameter is 90 cm . If Radius of Circle B is 7 cm less than circle A then find area of Circle B?
 (a) 556 cm^2 (b) 616 cm^2 (c) 588 cm^2
 (d) 532 cm^2 (e) 630 cm^2
55. There are 40 children in a class in which boys are 4 more than the girls. Average weight of all the students is 42.5 kg and the average weight of all the girls is 48 kg then find the average weight of all the boys.
 (a) 39.5 kg (b) 38 kg (c) 40.5 kg
 (d) 36.75 kg (e) 40.25 kg

Directions (56-60): In each question two equations numbered (I) and (II) are given. Student should solve both the equations and mark appropriate answer.

- (a) If $x=y$ or no relation can be established
 (b) If $x>y$
 (c) If $x<y$
 (d) If $x \geq y$
 (e) If $x \leq y$
56. I. $8x^2 + 6x + 1 = 0$ II. $3y^2 + 7y + 2 = 0$
 57. I. $x^2 = 196$ II. $y^2 - 26y + 169 = 0$
 58. I. $9x^2 - 12x + 4 = 0$ II. $8y^2 - 9y + 1 = 0$
 59. I. $x^2 - 15x + 56 = 0$ II. $y = \sqrt[3]{512}$
 60. I. $3x^2 + 10x + 8 = 0$ II. $2y^2 + 3y + 1 = 0$
61. A man invested 15% of his monthly income in LIC and remaining gave to his mother. Mother spend 10 % of it in household expenses and she had left with Rs 30,600 then find the salary of man ?
 (a) Rs 37,500 (b) Rs 36,000 (c) Rs 38,000
 (d) Rs 42,000 (e) Rs 40,000
62. If 7 marks are awarded to right answer and 4 marks are penalty for wrong answer. Then Prabhat's score was 263. If he attempted 58 questions then find number of correctly attempted questions?
 (a) 45 (b) 42 (c) 48
 (d) 40 (e) 50
63. In a city, 68% of population is literate in which ratio of male to female is 11:6. And ratio of illiterate male to female is 3: 1 . Find the ratio of literate female to illiterate female in that city.

- (a) 3:2 (b) 2:1 (c) 3:1
 (d) 4:1 (e) 5:2

64. Ratio of length to breadth of a rectangle is 4:3. If the area of that rectangle is 108 cm^2 and breadth of this rectangle is equal to the side of a square then find the area of that square.
 (a) 49 cm^2 (b) 100 cm^2 (c) 64 cm^2
 (d) 81 cm^2 (e) 121 cm^2
65. A is 1.5 times as efficient as that of B and C takes half time as compared to that of A. If A and B takes $2\frac{2}{5}$ days to complete half of the work then find the time taken by A and C together to complete the whole work?
 (a) $2\frac{1}{3}$ days (b) $3\frac{1}{3}$ days (c) $1\frac{1}{3}$ days
 (d) $1\frac{2}{3}$ days (e) $2\frac{2}{3}$ days

Directions (66-70): Given below table shows the number of cakes of five different types sold by a shopkeeper on four different days. Study the data and answer the questions that follow:

Days/Type of Cake	A	B	C	D	E
Saturday	25	28	35	50	38
Sunday	35	65	48	42	47
Monday	38	60	40	24	29
Tuesday	46	54	55	44	30

66. What is the ratio of no. of cakes of type B sold by the shopkeeper on Saturday and Monday together to the no. of cakes of type E sold by him on the same days?
 (a) 72:53 (b) 88:67 (c) 98:73
 (d) 92:71 (e) 90:67
67. What is average no. of cakes of type C sold by shopkeeper on Saturday, Sunday and Tuesday?
 (a) 38 (b) 40 (c) 42
 (d) 44 (e) 46
68. The no. of cakes of type D and E sold together on Tuesday is what percent of the no. of cakes of type A & B sold together on Sunday?
 (a) 72% (b) 75% (c) 74%
 (d) 78% (e) 80%
69. What is the difference between the total no. of cakes of all the given types sold by shopkeeper on Monday and the total no. of cakes of all the given types sold by shopkeeper on Tuesday?
 (a) 38 (b) 44 (c) 42
 (d) 40 (e) 45
70. If the no. of cakes of type F sold by the shopkeeper in given four days is 25% more than the no. of cakes sold of type D in all the given days, then find the no. of cakes sold of type F in all the given days.
 (a) 164 (b) 160 (c) 180
 (d) 200 (e) 240

ENGLISH LANGUAGE

Directions (71-76): Read the following passage and answer the questions that follow it. Some words are highlighted to help you answer some of the questions.

Conversations about the role of flexible working have shifted. It's no longer enough for companies to offer employees the option to either work from home or the office. Employees want to work from anywhere. Companies that want to attract and retain top talent, and ensure teams are highly productive, need to adapt their culture and technology to accommodate this shift in attitudes. And this is where the IT department can solidify its role as a valued contributor to the success of a company, by implementing technologies that enable secure and remote collaboration.

According to a recently commissioned Polycam survey, 24,000 respondents across 12 countries indicate that nearly two-thirds of today's global workforce take advantage of the anywhere working model. This is a significant shift since May of 2012 when only 14% of employees benefited from remote working. The survey results also provide insights into some of the concerns among companies in moving forward with the anywhere working model. Two significant concerns are a lack of trust and the perception that employees are not working as hard when they are not in the office. Also, among the 45-60-year-old age group, 59% worry that working anywhere will cause them to work longer hours. The fear of being always connected to work and overworking is a significant deterrent for this age group.

A good first step for companies to overcome the trust and perception concern is to ensure workers are measured by output and not by the hours they have worked, commonly referred to as 'presenteeism.' Countries like Brazil lead the pack here with 80% of employees adopting the anywhere working model, and 64% respondents use video to communicate several times a day. When respondents were asked how their companies could improve trust and perceptions with the anywhere working model, the most popular recommendations were to: Equip workers with technology that is easy to use and which connects them to their colleagues; Ensure the same policies are applied to everyone in the business, regardless of seniority or their situation; and Provide guidelines on how to manage working from anywhere.

91% of those surveyed agreed that technology is a key factor in improving relationships and **fostering** better teamwork. This suggests that investing in the right technologies, in particular video collaboration, to get the most out of individuals and teams can help solve the lack of trust and perception concerns. And this is where the IT

department can become a difference maker as they can implement technologies, such as video conferencing, to ensure colleagues can seamlessly collaborate wherever they are.

71. What is the shift in attitude of employees as discussed in the passage?
 - (I) They want to work in office.
 - (II) They want to work from home.
 - (III) They want to work from anywhere.
 - (a) Only (I)
 - (b) Both (II) & (III)
 - (c) Only (III)
 - (d) Only (II)
 - (e) None of (I), (II) & (III)
72. How could companies accommodate the recent shift in attitudes of employees as discussed in the passage?
 - (a) By offering work from home option to employees
 - (b) By enabling secure and remote collaboration
 - (c) By increasing the salaries of employees
 - (d) Options (a) & (b)
 - (e) None of the above
73. Which of the followings mention(s) the concern of the companies to accommodate the latest preference of employees for working styles?
 - (a) Lack of trust for employees;
 - (b) Perception that employees will not work hard anywhere apart from office;
 - (c) Working anywhere would make employees to work longer hours;
 - (d) Options (b) & (c)
 - (e) Options (a) & (b)
74. How could companies overcome their concerns for the latest preferences of employees for style of working?
 - (a) By not offering work from home model
 - (b) By measuring employees for the output, they generate and not by the hours they have worked
 - (c) By offering work from anywhere model
 - (d) By allowing only those who are interested to work from anywhere.
 - (e) None of the above
75. Which of the following opinions as expressed in the survey about solving the trust and perception concerns of the companies in accommodating the latest preference of employees for style of work has received more than 91%?
 - (a) Investing in technology
 - (b) Providing guidelines on how to manage working from anywhere
 - (c) Ensuring the same policies are applied to everyone regardless of seniority
 - (d) Options (a) & (c)
 - (e) None of the above

76. Which of the following options has a meaning which is SIMILAR to the word 'fostering'?
- (a) asserting (b) focusing (c) collaborating
(d) encouraging (e) admitting

Directions (77-81): Rearrange the following five sentences (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- (A) Crucially, this loss of sheen is reflected in the account books of the sport's controversial administrator, among the richest in the world.
- (B) The total income that was distributed by BCCI among players is reduced because of lower income from media rights.
- (C) Television viewership for the game has dropped 40% to a weekly 61 gross rating points (GRPs).
- (D) A Board of Control for Cricket in India official said, however, that this was because India wasn't playing enough at home.
- (E) Cricket seems to be losing its crowd-pulling power.

77. Which of the followings is the FOURTH sentence of the final sequence?

(a) A (b) D (c) E
(d) B (e) C

78. Which of the followings is the FIRST sentence of the final sequence?

(a) E (b) C (c) D
(d) A (e) B

79. Which of the followings is the SECOND sentence of the final sequence?

(a) E (b) A (c) C
(d) D (e) B

80. Which of the followings is the THIRD sentence of the final sequence?

(a) E (b) A (c) D
(d) C (e) B

81. Which of the followings is the FIFTH sentence of the final sequence?

(a) C (b) A (c) E
(d) D (e) B

Directions (82-85): In the following questions, a sentence is given consisting four highlighted words. Choose the option reflecting the word which is either misspelt or grammatically incorrect. If all the highlighted words are correct, choose option (e) i.e. "no error" as your answer choice.

82. Making the request for a non-smoking room seemed resonable for everyone since the woman was allergic to smoke.

(a) Making (b) Request (c) Resonable
(d) Allergic (e) No error

83. When we are involved in large-scale projects, we must make judgements on an individual basis about whether they are good or bad.

(a) involved (b) judgements (c) individual
(d) basis (e) No error

84. Several expriments were tried, to determine positively whether or not she had any perception of sound.

(a) expriments (b) determine (c) whether
(d) perception (e) No error

85. When the man gave the terrific persuasive speech at the conference, the observers applaud with gusto by putting their hands together.

(a) terrific (b) conference (c) applaud
(d) putting (e) No error

Directions (86-90): In the following questions two columns are given containing three sentences/phrases each. In first column, sentences/phrases are A, B and C and in the second column the sentences/phrases are D, E and F. A sentence/phrase from the first column may or may not connect with another sentence/phrase from the second column to make a grammatically and contextually correct sentence. Each question has five options which display the sequence(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence. Choose the correct combination of parts that make a meaningful sentence.

86. COLUMN I

- (A) There is emerging international recognition
(B) It can serve as the driving force to restore hope
(C) The earnest determination distilled in these words is the spirit we all need

COLUMN II

- (D) and create societies where all can live with hope and dignity.
(E) our work makes us feel productive and empowered.
(F) that women's participation is key to effective climate action.

(a) C-F, A-D and A-E
(b) B-E
(c) A-F
(d) A-D and C-E
(e) A-F and B-E

87. COLUMN I

- (A) Over time, there are changes that take place
(B) In the case of primary succession,
(C) In other cases, a pre-existing group of species is replaced by a new group of species,

COLUMN II

- (D) where they house an array of species.
(E) that ecological communities move from possessing very little species diversity
(F) in the composition of species that constitute an ecological community.

- (a) C-E, A-D and A-F
 (b) B-D
 (c) A-F
 (d) B-E and C-D
 (e) B-D

88. Column (1)

- (A) The increase in MSP for rabi crops comes
 (B) There are notified crops
 (C) For big companies, there are instances

Column (2)

- (D) The government said in a release.
 (E) Just ahead of the RBI monetary policy announcement.
 (F) Of even the infrastructure getting damaged.
 (a) C-F (b) C-E and B-F (c) A-E
 (d) C-F and A-E (e) B-F, B-E and A-D

89. Column (1)

- (A) India will be the third largest aviation
 (B) The biggest contribution in
 (C) Firstly, we are seeing an/a

Column (2)

- (D) market globally a year sooner.
 (E) as the world's largest aviation
 (F) restrictive protectionist measures
 (a) C-D, A-F and B-D
 (b) B-F
 (c) A-D
 (d) C-E and B-D
 (e) B-E

90. COLUMN I

- (A) Researchers are only beginning to understand the power
 (B) As our understanding grows, we will have the potential
 (C) The burden of gene editing

COLUMN II

- (D) cannot be borne by science alone.
 (E) to edit out genes that cause fatal diseases.
 (F) would not be passed down the family tree.
 (a) A-D, B-E and B-D
 (b) B-E and C-D
 (c) A-F
 (d) B-F and C-E
 (e) C-E

Directions (91-95): Given below are sentences consisting a blank in each. Identify the most suitable alternative among the five given that fits into the blank to make the sentence logical and meaningful.

91. In _____ to picking up milk from the grocery store, we also need to get some bread, because my cousin ate all of it this past week.
 (a) further (b) addition (c) computation
 (d) aftermath (e) besides

92. He _____ on things being done in the most efficient way and he usually does them that way himself.
 (a) requesting (b) conserves (c) urge
 (d) insists (e) discourages

93. If the quality of your product meets with our customer's approval, we will place _____ orders.
 (a) interrupted (b) reduced (c) regular
 (d) choice (e) conditional

94. Tom seems to be unwilling to believe that Mary was the one who _____ his credit cards.
 (a) stole (b) run (c) accept
 (d) delivery (e) checking

95. The Circular will guide the regional investment _____ and budgeting processes for FY 2020 Budget.
 (a) programming
 (b) scheduled
 (c) arrange
 (d) planned
 (e) records

Direction (96-100): The following questions consist of a sentence with a highlighted phrase which may or may not be grammatically or contextually correct. Choose the most suitable option that will replace the incorrect highlighted phrase to form a grammatically correct and meaningful sentence. If the given highlighted phrase is correct, choose option (e) i.e. "no replacement required" as your answer choice.

96. India has suffered from terrorism. So has Pakistan. And **it turns out**, now the first world too is not immune.
 (a) turning out to
 (b) it turns to
 (c) it turned out to be
 (d) it turning out
 (e) No replacement required

97. Ravi **would attempt to** open the lock with all his might when his spectacles slipped off and fell down
 (a) hardly have attempted to
 (b) attempted to
 (c) should to
 (d) could have attempted to
 (e) No replacement required

98. Any step that the Prime Minister takes to remove violence in the country **will be appreciate**.
 (a) will appreciated
 (b) will have appreciated
 (c) was appreciating
 (d) will be appreciated
 (e) were appreciating
99. If this is freedom of speech, then it **must been curtailed** immediately.
 (a) have being curtailing
 (b) must be curtailed

- (c) must have been curtailed
 (d) have been curtailed
 (e) No correction required

100. When the police started asking questions, the suspect **clammed up**.
 (a) camped down
 (b) clamped up
 (c) clam out
 (d) clamed off
 (e) No Correction Required

Solutions

REASONING ABILITY

Directions (1- 5):

Days	Persons
Mon	F
Tue	B
Wed	E
Thu	C
Fri	A
Sat	D
Sun	G

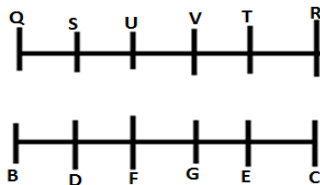
1. (d); 2. (b); 3. (a);
 4. (d); 5. (a);

Directions (6-8):

$B > E > A > F > C > D$

6. (b); 7. (c); 8. (d);

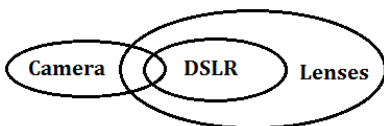
Directions (9-13):



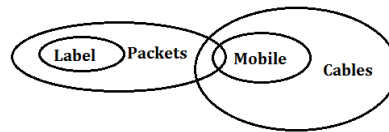
9. (c); 10. (b); 11. (d);
 12. (b); 13. (e);

Directions (14-16):

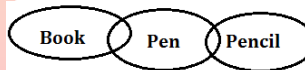
14. (b);



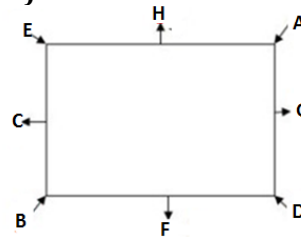
15. (d);



16. (d);



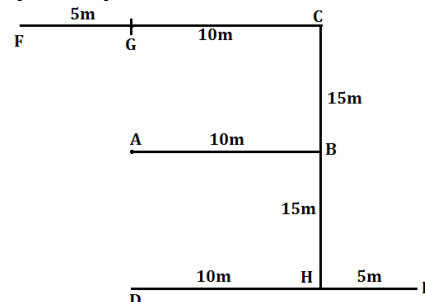
Direction (17-21):



17. (b); 18. (a); 19. (d);
 20. (a); 21. (d);
 22. (d);



Directions (23-25):



23. (c); 24. (a); 25. (d);

Directions (26-30):

26. (c); TAP NOT MAT PQR STB
TAP STB PQR NOT MAT
27. (c); TAP NOT MAT PQR STB
Hence, there are 18 letters between A and T.
28. (d); TAP NOT MAT PQR STB
TBO NPS MBS PRQ SUA
29. (d); TAP NOT MAT PQR STB
PAT TON TAM RQP BTS
30. (d);

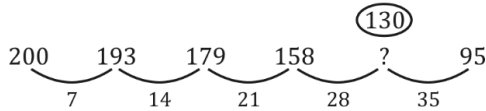
Directions (31-35):

Person	CITY
A	Delhi
B	Ahmedabad
C	Chennai
D	Pune
E	Kolkata
F	Lucknow
G	Mumbai

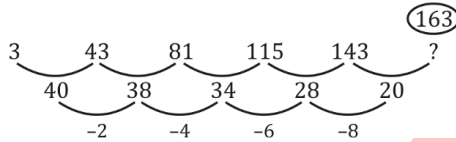
31. (e); 32. (c); 33. (d);
34. (d); 35. (a);

QUANTITATIVE APTITUDE

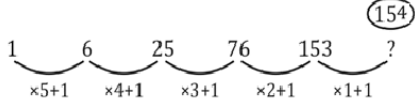
36. (d);



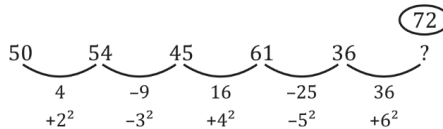
37. (a);



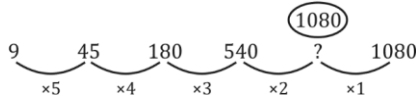
38. (b);



39. (b);



40. (c);



41. (b); Let the speed of boat in still water be x km/hr

ATQ

$$x + 3 + x - 3 = 36$$

$$x = 18$$

$$\text{Required time} = \frac{52.5}{21} = 2.5 \text{ hr}$$

42. (d); Let that sum be Rs 'p' and rate of interest be 'r'%

per annum

$$\text{Amount} = \text{Rs } 1.6p$$

$$\text{SI} = \text{Rs } 0.6p$$

ATQ

$$0.6p = \frac{p \times r \times 5}{100} \Rightarrow r = 12\%$$

43. (b); $x^2 + (81 + 34) \div 5 = 39$

$$x^2 + \frac{115}{5} = 39$$

$$x^2 = 39 - 23 = 16$$

$$x = 4$$

44. (c); $\frac{6 \times 16 \times 5}{3} - x^2 = 96$

$$160 - 96 = x^2$$

$$64 = x^2$$

$$8 = x$$

45. (e); $\sqrt{293 + x} = 18$

$$\text{Or, } 293 + x = 324$$

$$\text{Or, } x = 324 - 293 = 31$$

46. (a); $784 - x^2 = 343 + 225$

$$x^2 = 784 - 568 = 216$$

$$x = 6$$

47. (d); $298 - 169 - 8 = x \times 11$

$$121 = x \times 11$$

$$x = 11$$

48. (c); $9 + \frac{18}{5x} = 12 \Rightarrow \frac{18}{5x} = 3 \Rightarrow x = 1.2$

49. (b); $x \times 3 + 16 = 81 + 7$

$$\Rightarrow 3x = 72 \Rightarrow x = 24$$

50. (a); $\frac{3x}{8} = 8 \times 12$

$$\Rightarrow 3x = 64 \times 12 \Rightarrow x = 256$$

51. (c); $\frac{136}{4} \times x = \frac{85}{10} \Rightarrow x = \frac{85 \times 4}{10 \times 136} = \frac{1}{4} = 0.25$

52. (e); $\frac{1836}{9x} = 12$

$$\Rightarrow x = \frac{1836}{12 \times 9} \Rightarrow x = 17$$

53. (c); Let the present age of A and B be 3x and 2x years respectively

ATQ

$$\frac{3x+4}{2x+4} = \frac{10}{7} \Rightarrow x = 12$$

$$\text{Present age of B} = 24 \text{ yr}$$

- 54. (b);** Let radius of circle A be r cm
 ATQ
 $2\pi r - 2r = 90$
 $r = 21$ cm
 Radius of circle B=14 cm
 Area of circle B= 616 cm²
- 55. (b);** Let the number of girls be x
 Then, boys= $x+4$
 ATQ
 $x + 4 + x = 40$
 $x = 18$
 total weight of all students= $40 \times 42.5 = 1700$ kg
 total weight of girls= $18 \times 48 = 864$ kg
 weight of all boys = $1700 - 864 = 836$ kg
 average weight of all boys = $\frac{836}{22} = 38$ kg
- 56. (a); I.** $8x^2+6x+1=0$
 $\Rightarrow 8x^2+4x+2x+1=0$
 $\Rightarrow (4x+1)(2x+1)=0$
 $x = -\frac{1}{4}, -\frac{1}{2}$
II. $3y^2+7y+2=0$
 $\Rightarrow y = -2, -\frac{1}{3}$
 No relation
- 57. (a); I.** $x^2=196$
 $X = -14, 14$
II. $y^2-26y+169=0$
 $\Rightarrow y = 13$
 No relation
- 58. (a); I.** $9x^2-12x+4=0$
 $\Rightarrow 9x^2-6x-6x+4=0$
 $x = \frac{2}{3}, \frac{2}{3}$
II. $8y^2-9y+1=0$
 $\Rightarrow y = 1, \frac{1}{8}$
 No relation
- 59. (e); I.** $x^2-15x+56=0$
 $x = 8, 7$
II. $y = \sqrt[3]{512}$
 $\Rightarrow y = 8$
 $y > x$
- 60. (c); I.** $3x^2+10x+8=0$
 $x = -2, -\frac{4}{3}$
II. $2y^2+3y+1=0$
 $\Rightarrow y = -1, -\frac{1}{2}$
 $y > x$
- 61. (e);** Let the salary of man be Rs x
 Amount given to mother= $0.85x$
 ATQ
 $0.85x \times 0.90 = 30,600$
 $x = \text{Rs } 40,000$
- 62. (a);** Let number of correct questions be x
 Then, incorrect question= $(58-x)$
 ATQ
 $x \times 7 - (58 - x) \times 4 = 263$
 $x = 45$
- 63. (c);** Let the total population of that city be $100x$
 Then literate population= $68x$
 Literate male= $68x \times \frac{11}{17} = 44x$
 Literate female= $24x$
 Illiterate population= $32x$
 Illiterate female= $32x \times \frac{1}{4} = 8x$
 Required ratio= $\frac{24x}{8x} = 3:1$
- 64. (d);** Let the length and breadth of that rectangle be $4x$ and $3x$ cm respectively
 ATQ
 $4x \times 3x = 108$
 $x = 3$ cm
 Breadth= 9 cm
 Area of square= 81 cm²
- 65. (e);** Let the efficiency of A and B be $3x$ and $2x$ unit/day respectively
 Efficiency of C= $6x$ units/day
 Total work= $\frac{12}{5} \times 2 \times 5x = 24x$ units
 Required time= $\frac{24x}{9} = 2\frac{2}{3}$ days
- 66. (b);** Required ratio = $\frac{28+60}{38+29} = \frac{88}{67}$
- 67. (e);** Required average = $\frac{35+48+55}{3} = \frac{138}{3} = 46$
- 68. (c);** Required percentage
 $= \frac{(44+30)}{(35+65)} \times 100 = \frac{74}{100} \times 100 = 74\%$
- 69. (a);** Total cakes sold on Monday = $38 + 60 + 40 + 24 + 29 = 191$
 Total cakes sold on Tuesday = $46 + 54 + 55 + 44 + 30 = 229$
 Difference = $229 - 191 = 38$
- 70. (d);** No. of cakes of type F = $\frac{125}{100} \times (50 + 42 + 24 + 44)$
 $= \frac{5}{4} \times 160 = 200$

ENGLISH LANGUAGE

- 71. (c);** The answer to the question can be derived from the third and fourth sentences of the first paragraph which is 'Employees want to work from anywhere. Companies that want to attract and retain top talent, and ensure teams are highly productive, need to adapt their culture and technology to accommodate this shift in attitudes'.
Hence, the statement (III) or option (c) is the correct answer.
- 72. (b);** The recent shift in attitudes of employees is that they want to work from anywhere. Companies can accommodate this shift in attitude by enabling secure and remote collaboration so that work from anywhere could be enabled. The answer can also be inferred from the first paragraph, especially the last sentence of the first paragraph.
Hence, option (b) is the correct answer.
- 73. (e);** The latest preference of employees for working styles is to work from anywhere. The answer to the question can be derived from the last third sentence of the second paragraph: 'The survey results also provide insights into some of the concerns among companies in moving forward with the anywhere working model. Two significant concerns are a lack of trust and the perception that employees are not working as hard when they are not in the office'.
Hence, option (e) is the correct answer.
- 74. (b);** The latest preference of employees for style of working, as discussed in the passage, is working from anywhere. The companies can overcome their concerns for the working from anywhere model through, as mentioned in the first sentence of the third paragraph, 'presenteeism'. Meaning that the workers are measured by output and not by the hours they have worked.
Hence, option (b) is the correct answer.
- 75. (a);** The answer to the question can be derived from the first sentence of the fourth paragraph '91% of those surveyed agreed that technology is a key factor in improving relationships and fostering better teamwork'. From the highlighted sentence, it could be inferred that the 91% of those surveyed agreed that investing in technology would solve the lack of trust and perception concerns.
Hence, option (a) is the correct answer.
- 76. (d);** fostering [foster, verb] means 'encourage the development of (something, especially something desirable);
asserting [assert, verb] means 'state a fact or belief confidently and forcefully';
focusing [focus, verb] means 'adapt to the prevailing level of light and become able to see clearly';
collaborating [collaborate, verb] means 'work jointly on an activity or project';
encouraging [encourage, verb] means 'give support, confidence, or hope to (someone)';
admitting [admit, verb] means 'confess to be true or to be the case';
From above, it could be understood that the word 'encourage' has the meaning which is SIMILAR to the meaning of the work 'foster'.
Hence, option (d) is the correct answer.
- 77. (d);** The final sequence we get is ECABD.
Sentence B is the FOURTH sentence of the final sequence.
The option (d) is the correct answer.
The sentence (E) introduces the theme of the paragraph which is discussing dying of cricket in India. So, the sentence (E) should be the first sentence of the paragraph.
Though, both sentences (A) and (B) take the information presented in the sentence (C) forward, it is more coherent for the sentence (A) to follow the sentence (C). And it is more coherent for the sentence (B) to follow the sentence (A). The sentence (D) is an appropriate concluding sentence as it provides the reason for the downfall of the cricket.
So, the final sequence we get is ECABD and the option (d) is the correct answer.
- 78. (a);** The final sequence we get is ECABD.
Sentence E is the FIRST sentence of the final sequence.
The option (a) is the correct answer.
The sentence (E) introduces the theme of the paragraph which is discussing dying of cricket in India. So, the sentence (E) should be the first sentence of the paragraph.
Though, both sentences (A) and (B) take the information presented in the sentence (C) forward, it is more coherent for the sentence (A) to follow the sentence (C). And it is more coherent for the sentence (B) to follow the sentence (A). The sentence (D) is an appropriate concluding sentence as it provides the reason for the downfall of the cricket.
So, the final sequence we get is ECABD and the option (a) is the correct answer.

- 79. (c);** The final sequence we get is ECABD.
Sentence C is the SECOND sentence of the final sequence.
The option (c) is the correct answer.
The sentence (E) introduces the theme of the paragraph which is discussing dying of cricket in India. So, the sentence (E) should be the first sentence of the paragraph.
Though, both sentences (A) and (B) take the information presented in the sentence (C) forward, it is more coherent for the sentence (A) to follow the sentence (C). And it is more coherent for the sentence (B) to follow the sentence (A). The sentence (D) is an appropriate concluding sentence as it provides the reason for the downfall of the cricket.
So, the final sequence we get is ECABD and the option (c) is the correct answer.
- 80. (b);** The final sequence we get is ECABD.
Sentence A is the THIRD sentence of the final sequence.
The option (b) is the correct answer.
The sentence (E) introduces the theme of the paragraph which is discussing dying of cricket in India. So, the sentence (E) should be the first sentence of the paragraph.
Though, both sentences (A) and (B) take the information presented in the sentence (C) forward, it is more coherent for the sentence (A) to follow the sentence (C). And it is more coherent for the sentence (B) to follow the sentence (A). The sentence (D) is an appropriate concluding sentence as it provides the reason for the downfall of the cricket.
So, the final sequence we get is ECABD and the option (b) is the correct answer.
- 81. (d);** The final sequence we get is ECABD.
Sentence D is the FIFTH sentence of the final sequence.
The option (d) is the correct answer.
The sentence (E) introduces the theme of the paragraph which is discussing dying of cricket in India. So, the sentence (E) should be the first sentence of the paragraph.
Though, both sentences (A) and (B) take the information presented in the sentence (C) forward, it is more coherent for the sentence (A) to follow the sentence (C). And it is more coherent for the sentence (B) to follow the sentence (A). The sentence (D) is an appropriate concluding sentence as it provides the reason for the downfall of the cricket.
So, the final sequence we get is ECABD and the option (d) is the correct answer.
- 82. (c);** Among the highlighted words the misspelt word is "resonable". However, the precise spelling of the word is "REASONABLE" and it means having sound judgment; fair and sensible. All the other words have been spelt correctly and are in appropriate grammatical syntax. Hence, option (c) is the most suitable answer choice.
- 83. (b);** Among the highlighted words the misspelt word is "judgements". However, the precise spelling of the word is "JUDGMENTS" and it means the ability to make considered decisions or come to sensible conclusions. All the other words have been spelt correctly and are in appropriate grammatical syntax. Hence, option (b) is the most suitable answer choice.
- 84. (a);** Among the highlighted words the misspelt word is "experiments". However, the precise spelling of the word is "EXPERIMENTS" and it means perform a scientific procedure, especially in a laboratory, to determine something. All the other words have been spelt correctly and are in appropriate grammatical syntax. Hence, option (a) is the most suitable answer choice.
- 85. (e);** All the highlighted words of the sentence are grammatically correct and contextually meaningful with precise spellings. Since there is no error option (e) becomes the most suitable answer choice.
- 86. (c);** Combination A-F forms grammatically viable and contextually meaningful sentence as the relevant phrases are of similar context and in appropriate grammatical syntax. The sentence thus formed is, "There is emerging international recognition that women's participation is key to effective climate action".
- 87. (c);** Combination A-F forms grammatically viable and contextually meaningful sentence as the relevant phrases are of similar context and in appropriate grammatical syntax. The sentence thus formed is, "Over time, there are changes that take place in the composition of species that constitute an ecological community."
- 88. (d);** For big companies, there are instances of even the infrastructure getting damaged, Sentence (C) and (F) makes proper combination as a sentence. The increase in MSP for rabi crops comes just ahead of the RBI monetary policy announcement, (A) and (E) makes the perfect match as in sentence.

- 89. (c);** Only sentence (A) and (D) makes a perfect match as a sentence, India will be the third largest aviation market globally a year sooner.
- 90. (b);** Combination B-E and C-D successfully form grammatically viable and contextually meaningful sentence as the relevant phrases are of similar context and in appropriate grammatical syntax.
- 91. (b);** The most appropriate word to fill the blank is "addition" as "in addition to" is phrase which is used for saying that something extra exists or is happening together with the thing that you are talking about. All the other words fail to form a comprehensive sentence. Hence, option (b) is the most suitable answer choice.
Computation means the action of mathematical calculation.
Aftermath means the consequences or after-effects of a significant unpleasant event.
- 92. (d);** The most appropriate word to fill the blank is "insists". "insists" is a verb which means persist in (doing something). Some of the other words however may seem contextually meaningful yet they are grammatically incorrect. Hence, option (d) is the most suitable answer choice.
Conserves means protect (something, especially something of environmental or cultural importance) from harm or destruction.
Urge means try earnestly or persistently to persuade (someone) to do something.
- 93. (c);** The most appropriate word to fill the blank is "regular". "regular" means recurring at uniform intervals. Since the sentence is describing about the matching of quality of the product with the customer's need, the next part of the sentence should complement the earlier part. Therefore all the other words become contextually incorrect. Hence, option (c) is the most appropriate answer choice.
- Interrupted means stop the continuous progress of (an activity or process).
Reduced means make smaller or less in amount, degree, or size.
Conditional means subject to one or more conditions or requirements being met
- 94. (a);** The most appropriate word to fill the blank is "stole". "Stole" means take (another person's property) without permission or legal right and without intending to return it. All the other words are grammatically and contextually correct.
- 95. (a);** The most appropriate word to fill the blank is "programming" as it means the process of scheduling something. All the other words become contextually incorrect. Hence, option (c) is the most appropriate answer choice.
Schedule means a plan for carrying out a process or procedure, giving lists of intended events and times.
Arrange means put (things) in a neat, attractive, or required order.
- 96. (e);** The sentence is grammatically correct.
- 97. (b);** In place of 'would attempt', 'attempted' will be used because in simple past tense subject + second form of the verb is used.
- 98. (d);** Instead of 'appreciate' in the highlighted part, 'appreciated' would be used. In passive voice, 'to be [is/are/am/was/were/be//being/been] + V3 form is always used. Hence, the option (d) is the correct answer.
- 99. (b);** **Curtail** means reduce in extent or quantity; impose a restriction on.
- 100. (e);** **Clam up** means to refuse to speak.



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Directions (1-5): Study the following information carefully and answer the questions given below:

There are eight persons namely S, T, U, V, W, X, Y and Z lives on eight different floors from one to eight. Ground floor is number 1 and top floor is number eight but not necessarily in the same order.

X lives on odd number floor but does not live on 3rd floor. Z lives immediate below X. More than two person lives between Z and Y. There are six person living between S and Y. V lives immediate above W but live below T. U does not live above X. W does not live immediate above Y.

- Who lives on floor number five?
(a) U (b) S (c) Z
(d) T (e) None of these
- How many persons live between W and X?
(a) One (b) Three (c) Five
(d) Two (e) None of these
- Who lives immediate above V?
(a) Z (b) T (c) Y
(d) W (e) None of these
- Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which is the one that does not belong to that group?
(a) Y (b) V (c) T
(d) X (e) W
- Who lives on 2nd floor?
(a) X (b) S (c) U
(d) Z (e) None of these

Directions (6-8): In each of the questions below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. Give Answer-

- If only Conclusions I follows
- If only Conclusions II follows
- If either Conclusions I or Conclusion II follows
- If neither Conclusion I nor Conclusion II follows
- If both Conclusion I and II follows

- Statement**-Some Dares are Dream.
All Dreams are Real.
No Real is Fake.

Conclusion:-

- Some Dreams are Fake.
- All dream is not fake.

- Statement**-No Rain is Game.
Some Games are Chain.
No Chain is Lane.

Conclusions:

- Some Chains are not Rain.
- Some Games are Lane.

- Statement**-Some Movie are Ticket.
No Ticket is Popcorn.
Some Popcorn is Burger.

Conclusions:

- Some Movies are Burger.
- Some Burgers are not Movie.

Directions (9-13): Study the following information carefully and answer the questions given below:

Eight friends A, B, C, D, P, Q, R and S are sitting in a straight line (but not necessarily in the same order). Some of them are facing south while some are facing north. (Note: Facing the same direction means. If one is facing north then the other also faces north and vice versa. Facing opposite directions means. If one is facing North then the other faces south and Vice versa).

Q sits at one of the extreme ends of the line. C sits third to the left of Q. B, is not an immediate neighbour of Q. P, sits third to the right of C. A faces north. D sits to the immediate right of P. D does not sits at any of the extreme end of the line. Only one person sits between R and B. P sits second to the left of R. S sits second to the right of D. Both the immediate neighbour of P faces the same direction to each other. Both the immediate neighbour of C faces the opposite direction to each other. S faces the same direction as D and A faces the same direction as R.

- How many persons sits between D and A?
(a) One (b) Non (c) Three
(d) Two (e) None of these
- Who among the following pair sits at extreme ends?
(a) S, Q (b) D, Q (c) Q, R
(d) S, R (e) None of these
- Who sits third to the left of D?
(a) R (b) B (c) Q
(d) C (e) None of these

12. Who sits immediate right of B?

- (a) A (b) C (c) R
(d) S (e) None of these

13. Four of the following five are alike in a certain way based on the given seating arrangement and thus form a group. Which is the one that does not belong to that group?

- (a) A (b) C (c) S
(d) B (e) D

Directions (14-16): In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions:

(a) If only conclusion I follows.

(b) If only conclusion II follows.

(c) If either conclusion I or II follows.

(d) If neither conclusion I nor II follows.

(e) If both conclusion I and II follow.

14. **Statements:** $Z > W > V = K < L < I$

Conclusion: I. $W > K$ II. $I > K$

15. **Statements:** $Q > B$, $K < E < B$, $J \geq E$, $R < Q$

Conclusion: I. $Q > K$ II. $Q = E$

16. **Statement:** $E = F < G < H$; $G \geq I$

Conclusions: I. $H > I$ II. $E > I$

Directions (17-21): Study the following alphabetical sequence and answer the questions following it.

A B B C D E F E I B C A F E C B B A C A O B N U V W

17. How many C's are there in the alphabetical series which are immediately preceded by a vowel and immediate followed by consonant?

- (a) One (b) Two
(c) Three (d) More than three
(e) None of these

18. If all the vowels are dropped from the series, then which alphabet will be eighth from the left end?

- (a) C (b) B (c) N
(d) F (e) None of these

19. How many Vowels are there in the alphabetical series which are immediately preceded by a consonant?

- (a) One (b) Two
(c) Four (d) More than Five
(e) None

20. If the position of the 1st and the 14th alphabets, the 2nd and the 15th alphabets, and so on up to the 13th and the 26th alphabets, are interchanged, Then which alphabet will be 7th to the right of 10th alphabet from the right end?

- (a) A (b) C (c) N
(d) B (e) None of these

21. How many total vowels are there in the alphabetical series?

- (a) Five (b) Ten (c) Three
(d) Nine (e) None of these

Direction(22-26): Study the following information carefully and answer the questions given below:

There are eight notes of different denominations i.e. 1, 5, 20, 50, 100, 200, 500, 2000 rupees which are arranged in a circular arrangement facing towards the centre not necessarily in the same order. 50 rupees note is arranged second to the right of 200 rupees note. Odd denominations note will not be immediate neighbour of 200 and 50 rupees note. There will be less than 100 rupee denomination note to the immediate left and immediate right of 100 rupees note except 1 rupee note. 100 rupee note is second to the left of 5 rupees note. 2000 rupees note is second to the left 100 rupees note.

22. Which rupee note will be arranged to the immediate left of 50 rupees note?

- (a) 100 (b) 2000 (c) 500
(d) 5 (e) None of these

23. Which rupee note will be arranged to the third to the right of 5 rupees note?

- (a) 2000 (b) 100 (c) 200
(d) 20 (e) None of these

24. What will be the sum of note which is immediate left of 50 rupees note and immediate right of 500 rupees note?

- (a) 2100 (b) 550 (c) 700
(d) 2200 (e) None of these

25. Which denomination note are between 1 and 100 rupees note, when counted clockwise from 1 rupee note?

- (a) 5 and 20
(b) 50 and 100
(c) 200 and 2000
(d) 1 and 500
(e) None of these

26. Which rupee note will be arranged to the third to the right of 2000 rupees note?

- (a) 2000 (b) 100 (c) 200
(d) 20 (e) None of these

Directions (27-31): These questions are based on the following five numbers.

834 427 563 649 975

27. If all the digits of numbers are arranged in ascending order within the number, then which of the following is lowest number?

- (a) 975 (b) 649 (c) 834
(d) 563 (e) None of these

28. If 1st digit of highest number is divided by 2nd digit of 2nd highest number, then what will be the resultant?
(a) 2 (b) 3 (c) 4
(d) 5 (e) None of these
29. If 2 is subtracted from the every even digit and 1 is subtracted from every odd digit number of each number, which number among them will be lowest number?
(a) 834 (b) 427 (c) 563
(d) 649 (e) None of these
30. What is addition of 3rd digit of highest number and 2nd digit of lowest number?
(a) 7 (b) 6 (c) 4
(d) 3 (e) None of these
31. If 1st digit of 2nd highest number is divided by 1st digit of lowest number, then what will be the resultant?
(a) 5 (b) 3 (c) 2
(d) 4 (e) None of these
32. If 1 is subtracted from each even number and 2 is subtracted to each odd number in the number **5827936**, then how many digits will appear twice in the new number thus formed?
(a) Only 7 (b) Only 5 and 7
(c) 1, 5 and 7 (d) 4, 5 and 9
(e) None of these
33. How many letter will be remain at the same position in the word '**SURFACE**' when they are arranged in the alphabetical order from left to right?
(a) four (b) Three (c) One
(d) Two (e) None of these
34. There are five person i.e. P, Q, R, S and T. If Q is taller than R and S but smaller than T. S is smaller than T, who is not the tallest. Then who is the tallest person among all?
(a) T (b) Q (c) S
(d) P (e) None of these
35. How many pairs of letters are there in the word "**SENATOR**" which have as many letters between them in the word as in alphabetical series?
(a) None (b) One (c) Two
(d) Three (e) Four

QUANTITATIVE APTITUDE

36. Ratio of speed of boat in down stream and speed of stream is 9:1, if speed of current is 3 km per hr, then find distance travelled(in km) upstream in 5 hours.
(a) 105 (b) 110 (c) 120
(d) 90 (e) 95
37. Sum of 4 consecutive even numbers are greater than three consecutive odd numbers by 81. If sum of least odd and least even number is 59, then find the sum of largest odd and largest even numbers.
(a) 69 (b) 71 (c) 73
(d) 67 (e) 79
38. Two different amounts are invested in two schemes. In scheme A, amount X is invested at 8 % per annum and in scheme B amount (X+1400) is invested at 12% per annum. After 2 years difference between interests obtained from both schemes is 880, then find value of X?
(a) 7200 (b) 5500 (c) 6800
(d) 7300 (e) 7000
- Directions (39-43):** Given below is the table that shows the number of books sold from five stores on five days. Study the table carefully to answer the question.
- | Stores | Sunday | Monday | Tuesday | Wednesday | Thursday |
|--------|--------|--------|---------|-----------|----------|
| A | 77 | 80 | 49 | 93 | 58 |
| B | 89 | 57 | 55 | 85 | 54 |
| C | 56 | 36 | 82 | 90 | 40 |
| D | 68 | 74 | 78 | 70 | 95 |
| E | 82 | 65 | 90 | 86 | 84 |
39. What is the ratio of total number of books sold from store D on Sunday, Monday and Tuesday together to total books sold from store E on Tuesday, Wednesday and Thursday together.
(a) 13 : 11 (b) 11 : 15 (c) 11:13
(d) 13 : 15 (e) 11 : 17
40. Number of books sold on Friday from stores C and D increased by 15% and 20% respectively as compared to that sold on previous day. What number of books the stores C & D sold on Friday?
(a) 162 (b) 158 (c) 150
(d) 160 (e) 168
41. Total numbers of books sold from store B on Tuesday and Wednesday together are what percent more or less than total books sold from stores C & D together on Monday?
(a) $27\frac{3}{13}\%$ (b) $27\frac{3}{11}\%$ (c) $25\frac{2}{11}\%$
(d) $24\frac{3}{11}\%$ (e) None of these
42. What is the average number of books sold from stores B on Sunday, C on Tuesday and E on Thursday ?
(a) 82 (b) 80 (c) 88
(d) 75 (e) 85
43. Find the difference in total number of books sold from stores C and E together on Tuesday and From store B on Monday and Thursday together?
(a) 61 (b) 65 (c) 59
(d) 60 (e) 63

Directions (44-48): What should come in place of the question mark(?) in following no. series?

44. 255, 230, 250, 235, 245, ?
 (a) 245 (b) 240 (c) 225
 (d) 260 (e) 265
45. 5, 3.5, 5, ?, 21.5, 56.75
 (a) 7.5 (b) 8.5 (c) 9.5
 (d) 10.5 (e) 9
46. 8, 4, 4, 8, 32, ?
 (a) 512 (b) 128 (c) 248
 (d) 256 (e) 232
47. 129, 128, 124, 115, ?, 74
 (a) 99 (b) 98 (c) 101
 (d) 97 (e) 103
48. 0.5, 1.5, 5, 18, 76, ?
 (a) 380 (b) 385 (c) 390
 (d) 375 (e) 395
49. Average age of A and B two years ago was 26 years. If age of A five years hence will be 40 years and B is 5 years younger than C. find difference between age of A and C?
 (a) 8 years (b) 10 years
 (c) 9 years (d) 12 years (e) 6 years
50. Average of X, Y, Z is 24, X:Y = 2:3, X+Y = 60, then find X-Z=?
 (a) 16 (b) 14 (c) 8
 (d) 10 (e) 12
51. Cost price of two articles is same. Shopkeeper got profit of 40% on first article, if selling price of second article is 25% less than selling price of first article, then find over all profit percent on both articles.
 (a) 23% (b) 12 ½% (c) 5%
 (d) 22 ½% (e) 27 ½%
52. Length of rectangle is 80% of diagonal of square, which area is 1225, then find area of rectangle if it's perimeter is $94\sqrt{2}$.
 (a) 1016 (b) 500 (c) 1604
 (d) 1064 (e) 625
53. Annual salary of Arun is 7.68 lac. In a month if he spends 12000 on his children, 1/13th of rest on food and 8000 in mutual funds from his monthly salary, then find the monthly saving he is left with.
 (a) 40,000 (b) 45,000 (c) 50,000
 (d) 36,000 (e) 38000

Directions (54-68): What should come in place question mark (?) following simplification problems?

54. $40\% \text{ of } \left(\frac{20}{4} \times ?\right) = 48$
 (a) 20 (b) 24 (c) 28
 (d) 32 (e) 22
55. $(2.5 + 1.5)(3.5 + 1.5) = ?$
 (a) 15 (b) 30 (c) 20
 (d) 24 (e) 20.5

56. $40 \times 64 \div 80 = ?^2 + 7$
 (a) 5 (b) 6 (c) 7
 (d) 4 (e) 2
57. $25\% \text{ of } 16 \times (15 - ?)^3 = 256$
 (a) 15 (b) 13 (c) 9
 (d) 11 (e) 7
58. $90 = 15\% \text{ of } 1000 \times 3\% \text{ of } \left(\frac{100}{?}\right)$
 (a) 4 (b) 5 (c) 7
 (d) 9 (e) 3
59. $? + 7^2 = (7 \times 4) + (43 \times 5)$
 (a) 192 (b) 194 (c) 196
 (d) 198 (e) 200
60. $3\frac{1}{3} - ? \times \frac{3^2}{2^3} = 2\frac{5}{6}$
 (a) 2/3 (b) 2/9 (c) 4/9
 (d) 9/4 (e) 7/9
61. $40\% \text{ of } (102 \div 17) \times ? = 2^3 \times 6$
 (a) 20 (b) 22 (c) 25
 (d) 30 (e) 15
62. $? - 2^3 = (7^2 - 12) + (10^2 - 17)$
 (a) 132 (b) 126 (c) 124
 (d) 128 (e) 130
63. $400\% \text{ of } ? = (13 \times 15) - (891 \div 9)$
 (a) 20 (b) 24 (c) 22
 (d) 28 (e) 18
64. $8^2 \times 8^2 = 2^? \times 2^6 \times 2^4$
 (a) 1 (b) 3 (c) 2
 (d) 0 (e) 4
65. $20\% \text{ of } (2^2 \times 3^2) - 2 = ?$
 (a) 2.5 (b) 5.2 (c) 5.4
 (d) 5.6 (e) 6.2
66. $20\% \text{ of } \frac{1}{5} \text{ of } 2250 = 50 + ?$
 (a) 55 (b) 90 (c) 50
 (d) 40 (e) 45
67. $986 - 432 + 116 = ? + (13)^2$
 (a) 501 (b) 505 (c) 401
 (d) 451 (e) None of these
68. $14.2\% \text{ of } 11000 + 15.6\% \text{ of } ? = 3590$
 (a) 12000 (b) 13000 (c) 14560
 (d) 12250 (e) 13500
69. A can do a work in 24 days, B is 20% more efficient than A, if C can do the work in 10 more days than B, find days taken by A and C together to complete the work.
 (a) $\frac{20}{3}$ day (b) $\frac{44}{3}$ days (c) $\frac{40}{3}$ day
 (d) 6 days (e) $\frac{46}{3}$ days
70. The ratio of Milk to water is 5:4, if two litres of water is added ratio becomes 10:9, then find new amount of water in the mixture
 (a) 14 L (b) 16 L (c) 18 L
 (d) 20 L (e) 22 L

ENGLISH LANGUAGE

Directions (71-75): Read the following passage carefully and answer the questions given below it.

After major flooding in 1998, China introduced the Natural Forest Conservation Program, a logging ban to help protect against erosion and rapid runoff. A recent study in Science Advances of 10 years of satellite data found significant recovery in some Chinese forests. But it's not all good news. This reforestation is probably shifting deforestation elsewhere. They implemented two national programs. One was the Grain to Green program, which is basically to reconvert agricultural fields in steep slopes into forests. And the **other is the natural forest conservation program** which is, in a sense, a logging ban to prevent deforestation and also to increase the aerial forests. At regional scales, in the Sichuan province, the program seems to be working in the sense that there is forest regeneration, forest recovery. And so we wanted to see if that was the case on a national scale. And we also wanted to see if the program was, in fact, related with this regeneration.

China's conservation policies banned logging and employed locals as park rangers, protecting forests so that they could regrow. Research revealed that many of China's forests had in fact experienced regrowth over the last 10 to 15 years as a result of China's reforestation programs. Some 1.6 percent of China exceeded a net gain in forest cover, with a large chunk of the gains covering some 61,000 square miles in central China. Forest fires and other problems destroyed over 14,000 square miles of forest, meaning the total net gain for China was about 46,000 square miles. China's reforestation initiatives, in other words, have been a huge success. But this isn't necessarily a good thing. China, as it turns out, is just looking elsewhere to get the lumber products it needs.

China has become one of the leading timber importers in the world. It's Southeast Asia, Vietnam, Indonesia, as well as Africa, northern Eurasia, Russia are the ones that are now supplying all the gap that has been left by this program enacted. In a sense, the program exported the deforestation, and we basically also speculate that it's not just a climate issue, but also a biodiversity issue, because many of the places that are being deforested right now are also places of high biodiversity. We are replacing high biodiversity places in other places for relatively poor biodiversity forests in China.

We as consumers with user consumption habits and user consumption rates basically encourage China to participate in things like sustainable timber production certification. A lot of that timber that is imported is used to produce furniture, for example. But then is exported again to countries like the US and countries in Europe, etc. So, indirectly, we are contributing to this export of deforestation. What we do in one place will have

repercussions beyond that particular place. Thinking of China as a vacuum, it's a win for China, but how much a reality in terms of climate change mitigation this program is accruing is still a question mark.

- 71.** What is/are the efforts adopted by China for protection against erosion and run off?
 (I) Increase in the aerial forest.
 (II) reconverting agricultural fields in steep slopes into forests.
 (III) a logging ban to help protect against erosion.
 (a) Only (I) (b) Only (II)
 (c) Both (I) and (II) (d) Both (II) and (III)
 (e) All are correct
- 72.** What does the author mean by the statement "China's reforestation is probably shifting deforestation elsewhere"?
 (a) China is importing timber from other countries.
 (b) China is importing wooden furniture from other countries.
 (c) China is implementing the policies that are irresponsible for deforestation in other countries.
 (d) China is destroying other country's forest reserves directly.
 (e) All are correct
- 73.** Which of the following statement(s) signifies that China's reforestation initiative is a huge success?
 (a) Forests fires and other problems has diminished.
 (b) There is a net gain in the total forest cover of China.
 (c) China became the leading timber importers in the world.
 (d) Both (a) and (b)
 (e) All are correct
- 74.** What is the central idea of the passage?
 (a) Effects of conservation policy on China's forest recovery
 (b) Certification of China's sustainable timber production.
 (c) What China's successful reforestation program means for the rest of the world
 (d) Success of China's reforestation policies.
 (e) Deforestation issue in China and elsewhere: a global problem
- 75.** According to the passage, how are we responsible for exporting deforestation?
 (I) through unrestrained cutting of forests.
 (II) through forest fires.
 (III) by importing furniture from timber importing countries.
 (a) Only (I) (b) Only (III)
 (c) Both (I) and (II) (d) Both (II) and (III)
 (e) All are correct

Directions (76-80): In each of the questions given below a sentence is given with one blank. Below each sentence FOUR words are given out of which two can fit the sentence. Five options are given with various combinations of these words. You must choose the combination with the correct set of words which can fit in the given sentence.

76. Parking fees and fines are ____ big bucks for councils in England.
 (A) lending (B) providing
 (C) distributing (D) contributing
 (a) A-B (b) A-D (c) B-D
 (d) C-D (e) A-C
77. This infographic should help to explain the ____ of the Zika outbreak and possible symptoms, treatment and prevention.
 (A) sources (B) influences
 (C) causes (D) evidences
 (a) A-B (b) A-D (c) B-D
 (d) C-D (e) A-C
78. When I was a child, I always ____ to be a superhero.
 (A) wanted (B) needed
 (C) desired (D) required
 (a) A-B (b) A-D (c) B-D
 (d) C-D (e) A-C
79. People who often smile sincerely radiate likeability, ____ easily with others and are appreciated more.
 (A) hook up (B) incorporate
 (C) connect (D) combine
 (a) A-B (b) A-D (c) B-D
 (d) C-D (e) A-C
80. I grew up and ____ that science fiction was not a good source for superpowers.
 (A) resolved (B) realised
 (C) discerned (D) elaborated
 (a) A-B (b) A-D (c) B-C
 (d) C-D (e) A-C

Directions (81-90): In each of the question given below a/an idiom/phrase is given in bold which is then followed by five options which then tries to decipher its meaning as used in the sentence. Choose the option which gives the meaning of the phrase most appropriately in context of the given sentence.

81. We have **bent over backwards** to ensure a fair trial for the defendants.
 (a) Return (b) Tolerate
 (c) Diminish (d) Failed (e) Strive
82. Can we please **get on**, because there are a lot of things still to discuss.
 (a) Late (b) Friendly (c) Hurry
 (d) Behave (e) continue

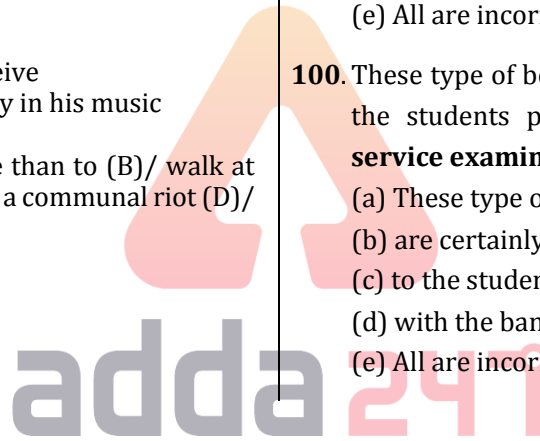
83. They will **buckle down** to negotiations over the next few months
 (a) Turn (b) Determination (c) Fall
 (d) Agree (e) Submit
84. I'm trying to **gear myself up** for tomorrow's exam.
 (a) Prepare (b) Motivate (c) Relax
 (d) Recharge (e) Accelerate
85. **Dream on!** I have a much better chance of getting it than you.
 (a) Inactive (b) Loose (c) Unlikely
 (d) Typical (e) Wait
86. She **perked up** as soon as I mentioned that Charles was coming to dinner.
 (a) Stopped (b) Pleasure (c) Irritated
 (d) Angry (e) Remember
87. I had to **lay off** the medication for a while to see if that was causing my headaches.
 (a) Reduce (b) Change (c) Hiatus
 (d) Ignore (e) Inspect
88. One voter in Brasilia **summed up** the mood- 'Politicians have lost credibility'
 (a) Create (b) Display (c) Summarize
 (d) Conclusion (e) Description
89. You'll have to **speak up** a bit if you want everyone to hear you.
 (a) Talkative (b) Logical (c) Loud
 (d) clear-headed (e) Sober
90. Their marriage **fell apart** when she found out about her husband's affair.
 (a) Stumble (b) Dilemma (c) Weak
 (d) Pieces (e) Collapse

Direction (91-100): In each of the questions given below a sentence is given which is then divided into five parts out of which last part is correct. There are errors in three parts of the sentence and only one part is correct. You must choose the part as your answer.

91. They have stayed (A)/ at Kashmir (B)/ for a very short (C)/ period of time and then (D)/ **they returned home.** (E)
 (a) They have stayed
 (b) at Kashmir
 (c) for a very short
 (d) period of time and then
 (e) All are incorrect
92. I were surprised (A)/ to know why had he (B)/turned down such (C)/a good offers (D)/ **of marriage.** (E)
 (a) I were surprised (b) to know why had he
 (c) turned down such (d) a good offers
 (e) All are incorrect

93. Everybody who was working(A)/ in that office give a day's pay (B)/ as their contributions to the (C)/ dependants of Dr. Sonu which (D)/ **had died on duty.** (E)
 (a) Everybody who was working
 (b) in that office give a day's pay
 (c) as their contributions to the
 (d) dependants of Dr. Sonu which
 (e) All are incorrect
94. Those book is (A)/ undoubtedly preferable than (B)/ that in many respects and (C)/ their printing is also (D)/ **comparatively good.** (E)
 (a) Those book is
 (b) undoubtedly preferable than
 (c) that in many respects and
 (d) their printing is also
 (e) All are incorrect
95. The audience would flock (A)/ at his concerts to (B)/ hear him to sing as they perceive (C)/ a sense of purity and piquancy in his music (D)/**that is hard to come by today.** (E)
 (a) The audience would flock
 (b) at his concerts to
 (c) hear him to sing as they perceive
 (d) a sense of purity and piquancy in his music
 (e) All are incorrect
96. Here better to stay (A)/ at home than to (B)/ walk at the street when there (C)/ erupts a communal riot (D)/ **in the town.**(E)
 (a) It was better to stay
 (b) at home than to
 (c) walk at the street when there
 (d) erupts a communal riot
 (e) All are incorrect

97. A Dogs soon (A)/ know the (B)/person whom (C)/ it are (D)/ **kindly treated.**(E)
 (a) A Dogs soon (b) know the
 (c) person whom (d) it are
 (e) All are incorrect
98. This was only (A)/ two soldiers but (B)/ each and every soldier(C)/ was equal of (D)/ **five policemen.** (E)
 (a) This was only
 (b) two soldiers but
 (c) each and every soldier
 (d) was equal of
 (e) All are incorrect
99. The majority of (A)/ the woman (B)/ teacher are persuading (C)/ the principal to considering (D)/ **their demands.**(E)
 (a) The majority of
 (b) the woman
 (c) teacher are persuading
 (d) the principal to considering
 (e) All are incorrect
100. These type of books (A)/ are certainly helpful (B)/ to the students prepare (C)/ with the banking (D)/ **service examinations.** (E)
 (a) These type of books
 (b) are certainly helpful
 (c) to the students prepare
 (d) with the banking
 (e) All are incorrect



Solutions

REASONING ABILITY

Directions (1-5):

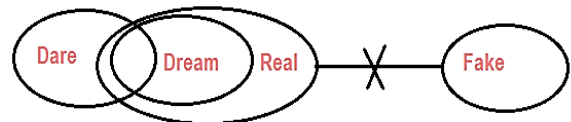
Floor	Person
8	S
7	X
6	Z
5	T
4	V
3	W
2	U
1	Y

1. (d); 2. (b); 3. (b);

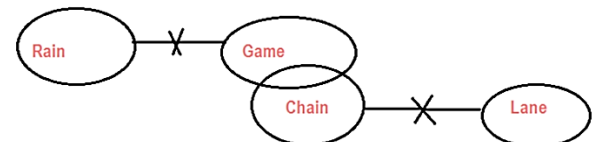
4. (b); 5. (c);

Direction (6-8):

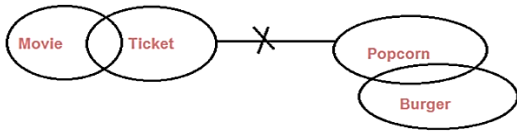
6. (b);



7. (a);



8. (c);



Direction (9-13):



9. (c) 10. (a) 11. (b)

12. (b) 13. (a)

Direction(14-16):

14. (e); I. $W > K$ (True) II. $I > K$ (True)

15. (a); I. $Q > K$ (True) II. $Q = E$ (False)

16. (a); I. $H > I$ (True) II. $E > I$ (False)

Directions (17-21):

17. (a); ECB

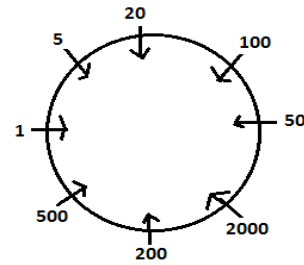
18. (d); F

19. (d); More than Five

20. (b); C

21. (b); 'Ten'

Direction (22-26):



22. (b) 23. (c) 24. (d)

25. (a) 26. (d)

Direction (27-31):

27. (e) 28. (b) 29. (b)

30. (a) 31. (c)

32. (c); 1, 5 and 7

33. (c);

34. (d);

35. (c);

QUANTITATIVE APTITUDE

36. (a); Speed of current = $y = 3$
 Down stream speed = $9 \times 3 = 27$ km/h
 Speed of boat in still water = x km/hr
 $x + y = 27$
 $x = 24$; $\therefore y = 3$
 Distance travelled upstream in 5 hr = speed \times Time
 $= (x - y) \times 5$
 $= (24 - 3) \times 5$
 $= 21 \times 5 = 105$ km

37. (a); Let least even number = x
 Consecutive even numbers $\Rightarrow x, x+2, x+4, x+6$
 Let least odd number = y
 Consecutive odd numbers = $y, y + 2, y + 4$
 ATQ
 $[x + (x + 2) + (x + 4) + (x + 6)] - [y + (y + 2) + (y + 4)] = 81$
 $4x + 12 - 3y - 6 = 81$
 $4x - 3y = 75$... (i)
 Now,
 sum of smallest even and odd numbers
 $x + y = 59$... (ii)
 solving (i) and (ii)
 $x = 36, y = 23$

Now sum of largest even number and largest odd number \Rightarrow
 $(36 + 6) + (23 + 4) = 69$
Alternate \Rightarrow
 Sum of least even and odd number = 59
 $x + y = 59$
 Now 4th consecutive even number is $x + 6$ and 3rd consecutive odd number is $y + 4$.
 Now \Rightarrow
 Required value
 $x + 6 + y + 4$
 $= x + y + 10$
 $= 59 + 10 = 69$

38. (c); In scheme A Interest

$$= \frac{x \times 8 \times 2}{100}$$

 In scheme B Interest

$$\frac{(x + 1400) \times 12 \times 2}{100}$$

 ATQ,

$$\frac{(x + 1400) \times 12 \times 2}{100} - \frac{x \times 8 \times 2}{100} = 880$$

 $x = 6800$

39. (c); Required ratio

$$= \frac{68 + 74 + 78}{90 + 86 + 84} = \frac{220}{260} = \frac{11}{13}$$

40. (d); Total books sold on Friday from Store C & D

$$= \frac{115}{100} \times 40 + \frac{120}{100} \times 95$$

$$= 46 + 114 = 160$$

41. (b); Required percentage

$$= \frac{(85 + 55) - (36 + 74)}{(36 + 74)} \times 100$$

$$= \frac{30}{110} \times 100 = 27\frac{3}{11}\%$$

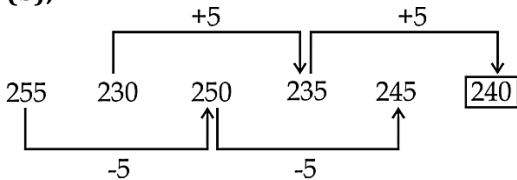
42. (e); Required average

$$= \frac{1}{3}(89 + 82 + 84) = \frac{1}{3} \times 255 = 85$$

43. (a); Required difference = (82 + 90) - (57 + 54)

$$= 172 - 111 = 61$$

44. (b);



45. (c); Series is $\times 0.5 + 1, \times 1 + 1.5, \times 1.5 + 2, \times 2 + 2.5$

$$\therefore ? = 5 \times 1.5 + 2 = 9.5$$

46. (d); Series is

$$8 \times 0.5 = 4$$

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

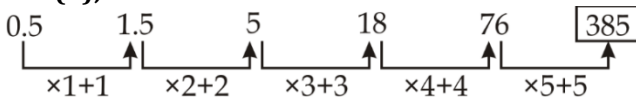
$$8 \times 4 = 32$$

$$32 \times 8 = 256$$

47. (a); Series is $-1^2, -2^2, -3^2, -4^2, \dots$

$$\therefore ? = 115 - 16 = 99$$

48. (b); Series is



49. (c); Average age of A and B 2 year ago = 26

$$\text{Present Average age } \frac{A + B}{2} = 28$$

$$\text{Present age A + B} = 56$$

$$\text{A's age after 5 year} = 40$$

$$\text{Now A's age} = 40 - 5 = 35$$

$$\text{B's age} = 56 - 35 = 21$$

$$\text{C's age} = 21 + 5 = 26$$

$$\text{Required difference} = 35 - 26 = 9$$

50. (e); $X : Y = 2x : 3x$

$$X + Y = 60$$

$$2x + 3x = 60$$

$$x = 12$$

$$X = 2x = 24$$

$$Y = 3x = 36$$

$$X + Y + Z = 24 \times 3$$

$$60 + Z = 24 \times 3$$

$$Z = 12$$

$$X - Z = 24 - 12 = 12$$

51. (d); Let cost price of both article = $100x$

Profit on sell of 1st article

$$= 40\% \text{ of } 100x = 40x$$

Selling price of 1st article = $140x$

Selling price of 2nd Article

$$= 140x - \frac{140 \times 25}{100} = 105x$$

Profit of on 2nd Article = $105x - 100x = 5x$

$$\text{Overall profit percent} = \frac{45x}{200x} \times 100 = 22\frac{1}{2}\%$$

52. (d); Area of square = 1225

$$a^2 = 1225$$

$$a = 35, \text{ diagonal of square} = a\sqrt{2} = 35\sqrt{2}$$

length of rectangle = 80% of $35\sqrt{2}$

$$l = 28\sqrt{2}$$

$$\text{Perimeter} = 94\sqrt{2}$$

$$2(l+b) = 94\sqrt{2}$$

$$2l + 2b = 94\sqrt{2}$$

$$2b = 94\sqrt{2} - 56\sqrt{2}$$

$$2b = 38\sqrt{2}$$

$$b = 19\sqrt{2}$$

$$\text{Area} = l \times b = 28\sqrt{2} \times 19\sqrt{2} = 1064$$

53. (a); Monthly salary = $\frac{7.68}{12}$ Lack = 64000

Saving = Income - Expenditure

$$= 64000 - 12000 - 4000 - 8000 = 40,000$$

54. (b); $\frac{40}{100} \times 5 \times ? = 48$

$$\Rightarrow ? = 24$$

55. (c); $? = 4 \times 5$

$$= 20$$

56. (a); $?^2 = \frac{40 \times 64}{80} - 7$

$$\Rightarrow ?^2 = 32 - 7$$

$$\Rightarrow ?^2 = 25$$

$$\Rightarrow ? = 5$$

57. (d); $\frac{25}{100} \times 16 \times (15 - ?)^3 = 256$

$$\Rightarrow (15 - ?)^3 = 64$$

$$\Rightarrow ? = 11$$

58. (b); $90 = \frac{15}{100} \times 1000 \times \frac{3}{100} \times \frac{100}{?}$

$$\Rightarrow ? = \frac{10}{2}$$

$$\Rightarrow ? = 5$$

59. (b); $? = 28 + 215 - 49$
 $= 194$

60. (c); $\frac{10}{3} - \frac{9}{8} \times ? = \frac{17}{6}$
 $\Rightarrow \frac{9}{8} \times ? = \frac{1}{2}$
 $\Rightarrow ? = \frac{4}{9}$

61. (a); $\frac{40}{100} \times 6 \times ? = 48$
 $\Rightarrow ? = \frac{80}{4}$
 $\Rightarrow ? = 20$

62. (d); $? = 37 + 83 + 8$
 $= 128$

63. (b); $4 \times ? = 195 - 99$
 $\Rightarrow ? = \frac{96}{4}$
 $\Rightarrow ? = 24$

64. (c); $2^? = 2^{12-6-4}$
 $\Rightarrow ? = 2$

65. (b); $? = \frac{1}{5} \times 36 - 2$
 $= 7.2 - 2 = 5.2$

66. (d); $? = 90 - 50 = 40$

67. (a); $554 + 116 - 169 = ?$
 $\Rightarrow ? = 501$

68. (b); $1562 + 15.6\% \text{ of } ? = 3590$
 $\Rightarrow ? = \frac{202800}{15.6} = 13000$

69. (c); A can do work in = 24 days
 B is with 20% more efficiency, so B can do same work in = 20 days
 C can do the same work in = 20 + 10 = 30 days
 One day work of A and C
 $= \frac{1}{24} + \frac{1}{30} = \frac{5+4}{120}$
 $= \frac{9}{120} \Rightarrow \frac{40}{3}$
 Time require by A and C = 40/3 days

70. (c); $\frac{\text{Milk}}{\text{Water}} = \frac{5x}{4x}$
 According to question
 $\frac{5x}{4x+2} = \frac{10}{9}$
 $x = 4$

New amount of water = $4x + 2 = 16 + 2 = 18$

ENGLISH LANGUAGE

71. (e); Refer first paragraph of the passage.

72. (a); Refer the second last paragraph of the passage "China has become one of the leading timber importers in the world. It's Southeast Asia, Vietnam, Indonesia, as well as Africa, northern Eurasia, Russia are the ones that are now supplying all the gap that has been left by this program enacted."

73. (b); Refer the second paragraph of the passage "Some 1.6 percent of China exceeded a net gain in forest cover, with a large chunk of the gains covering some 61,000 square miles in central China."

74. (c); The passage is about how China's reforestation policies affect the other countries.

75. (b); Refer the last few lines of the passage "A lot of that timber that is imported is used to produce furniture, for example. But then is exported again to countries like the US and countries in Europe, etc. So, indirectly, we are contributing to this export of deforestation."

76. (c); Here providing is a conjunction which means giving or contributing, which is similar to bringing.

77. (e); Cause means a person or thing that gives rise to an action, phenomenon, or condition, it has same meaning as source.

78. (e); Wanted and desired have same meaning that are making sentence meaningful.

79. (e); 'hook- up' and 'easily' are the correct set of words making the sentence meaningful.

80. (c); Realised means to become fully aware of (something) as a fact; understand clearly, has similar meaning as discerned.

81. (e); Bent over backwards means to try extremely hard to help or to please someone hence strive which means make great efforts to achieve or obtain something is the correct choice.

82. (e); If you get on with something, you continue doing it or start doing it.

83. (b); If you buckle down to something, you start working seriously at it.

84. (a); Gear up means to prepare for something that you have to do, or to prepare someone else for something.

85. (c); Dream on: Dream: used as an ironic comment on the unlikely nature of a plan or aspiration
86. (b); Perk up means to become or cause someone to become happier, more energetic, or more active:
87. (c); Lay off means to stop doing or using something, especially for a short period of time
88. (c); Sum up means to give a brief summary.
89. (c); Speak up here means to speak in a louder voice so that people can hear you.
90. (e); If an organization, system, or agreement falls apart, it fails or stops working effectively.
91. (c); (D) is incorrect as the use of 'of time' is superfluous because 'for a short period' or 'for a short time' is used. 'at' is incorrect because for smaller places. The use of 'have' in (A) is incorrect as the fixed part is in past tense. The use of 'at' in (B) is incorrect and 'in' will be used. Ex. He stayed here for a short period.
92. (c); In (B) use 'why he had' in place of 'why had he' because reported speech is assertive in indirect narration. In (A) use 'was' in place of 'were'.
93. (a); In (B) use 'give' in place of 'gave'. In (C) use 'his' in place of 'their' because the subject of the sentence is 'Everybody', hence possessive pronoun 'his' and reflexive pronoun 'himself' is used for that.
94. (c); In (B) in place of 'than', 'to' will be used. Always remember preposition 'to' is used after preferable/ prefer and not conjunction 'than'.
95. (d); Use of 'would' is incorrect as 'will' should be used because the fixed sentence is in present tense. In (B) use of 'at' is incorrect as 'to' must be used. In (C) 'to' will not be used because the correct syntax 'hear + object + V1' is used. Ex. I heard him sing.
96. (d); Use of 'was' in (A) is incorrect. In (B) Remove 'to' after 'than' as in the case of comparison between two infinitives, infinitive 'to' is not used after 'than' in the later one, V1 is used. Ex. You had better to do some work than wander. In (C) 'at' is incorrect as 'is' should be used.
97. (b); In (C) use 'by' before 'whom' to make the sentence grammatically correct. Look at these sentences; I know the man **by whom he was helped**. [Passive]
I know the man **who helped** him. [Active]
98. (b); In (C) replace 'each and every' by 'each' as '**each**' is used for '**two or more than two**' while '**every**' or '**each and every**' is always used for '**more than two**'.
e.g. There were **two boys** and **each** boy had a red pen.
There were **ten students** in the class room and **each/every/each and every** student had a red pen.
99. (a); In (b) use 'women' in place of 'woman' as in compound nouns made of 'man' or 'woman', plural form is used in both the parts. Ex. 'men conductors', 'man conductor'.
100. (b); Use 'types' in place of 'type' because after demonstrative adjectives like these/ those/ certain/ other etc. noun is always in plural number.
In (D) use 'for' in place of with.



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REASONING ABILITY

Directions (1-5): In each of the following questions assuming the given statements to be true, find out which of the two conclusions I and II given below them is/are definitely true.

Give answer

- (a) if only conclusion I is true.
 (b) if only conclusion II is true.
 (c) if either conclusion I or conclusion II is true
 (d) if neither conclusions I nor conclusion II is true.
 (e) if both conclusions I and II are true.

1. **Statements:** $Q = H, H < L, L < F$
Conclusions: I. $Q < F$ II. $H < F$

2. **Statements:** $D > E, E \geq I, I \geq K$
Conclusions: I. $D \geq I$ II. $E \geq K$

3. **Statements:** $V < W, W \leq U, U < R$
Conclusions: I. $V < R$ II. $W < R$

4. **Statements:** $F < J, J \leq T, T \geq R$
Conclusions: I. $F > T$ II. $F = R$

5. **Statements:** $M > K, K = H, H \geq L$
Conclusions: I. $M > L$ II. $M < H$

Directions (6-10): Study the flowing information carefully to answer these questions.

Eight friends A, B, C, D E, F G and H are sitting around a circle facing the centre. A sits third to the left of B, and second to the right of F. D does not sit next to A or B. C and G always sit next to each other. H never sits next to D and C does not sit next to B.

6. Which of the following pairs sits between H and E?
 (a) F, D (b) H, B (c) C, G
 (d) E, G (e) CB
7. Starting from A's position, if all the eight were arranged in alphabetical order in clockwise direction the seating position of how many members (excluding A) not change?
 (a) None (b) one (c) Two
 (d) Three (e) None of these
8. Which of the following pairs has only one person sitting between them, if the counting is done in clockwise direction?
 (a) A, B (b) C, D (c) F, E
 (d) G, H (e) CB
9. Who sits to the immediate right of E?
 (a) A (b) D (c) F
 (d) H (e) None of these

10. What is the position of B with respect to C?
 (a) Second to the left (b) Third to the right
 (c) Third to the left (d) Fourth to the right
 (e) None of these

Directions (11-15): To answer these questions study carefully the following arrangement of symbols, digits and letters.

W % 9 3 G 6 H # 7 K \$ L 2 ★ B M J © 4 5 E 8 @ Z

11. If all the numbers are deleted from the above arrangement then which of the following will be seventh to the left of sixth from the right?
 (a) H (b) J (c) M
 (d) \$ (e) None of these
12. How many such numbers are there in the above arrangement each of which is immediately preceded by a symbol?
 (a) One (b) Two (c) Three
 (d) Four (e) None of these
13. '9W' is related to 'GH#' and '\$7' is related to '2BM' in the same way as '4J' is to ____ in the arrangement.
 (a) E@8 (b) 58® (c) B2L
 (d) 58Z (e) None of these
14. How many such symbols are there in the above arrangement each of which is immediately followed by a letter?
 (a) None (b) One (c) Two
 (d) Three (e) None of these
15. If all the symbols are deleted from the above arrangement then which of the following will be the fourth to the left of twelfth from the right?
 (a) 9 (b) 3 (c) W
 (d) M (e) None of these

Directions (16-20): Study the following information carefully and answer the question given below-

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In row 1- A, B, C and D are seated and all of them are facing south. In row 2- P, Q,

R and S are seated and all of them are facing north. Therefore in the given seating arrangement each member seated in a row faces another member of the other row. R sits second to the left of person who faces A. S is an immediate neighbor of R. Only one person sits between A and D. One of the immediate neighbours of C faces Q. B does not sit at any of the extreme end of the line.

16. Who amongst the following sits second to the right of person who faces P?

- (a) A (b) B (c) C
(d) D (e) Can't be determined

17. Four of the following five are alike in certain way and thus form a group. Which is the one that does not belong to that group?

- (a) C (b) R (c) Q
(d) P (e) D

18. Which of the following is true regarding C?

- (a) C sits second to the right of D
(b) A sits to the immediate right of C
(c) S faces C
(d) D is an immediate neighbor of C
(e) The person who faces C is an immediate neighbor of R

19. Who amongst the following faces R?

- (a) A (b) B (c) C
(d) D (e) Can't be determined

20. Who amongst the following faces B?

- (a) P (b) Q (c) R
(d) S (e) Can't be determined

Directions (21-25): These questions are based on five words given below:

THE MOD CPU RBM SHE

(Note: The words formed after performing the given operations may or may not be a meaningful English word.)

21. If the second alphabet in each of the word is changed to the previous alphabet in English alphabetical order, how many words thus formed have more than one vowel?

- (a) None (b) One (c) Two
(d) Three (e) None of the above

22. If in each of the words, all the alphabets are arranged in English alphabetical order within the word, how many words will begin with a vowel?

- (a) One (b) Two (c) Three
(d) Four (e) None of the above

23. How many letters are there in the English alphabetical series between the third letter of the second word from the left and second letter of the second word from the right?

- (a) One (b) Two (c) Three
(d) Four (e) None of the above

24. If the given words are arranged in the order as they would appear in the English dictionary from left to right, which of the following will be the fourth from the left?

- (a) RBM (b) SHE (c) CPU
(d) MOD (e) THE

25. If in each of the given words, each of the consonants is changed to the previous letter and each vowel is changed to the next letter in English alphabetical series, in how many words thus formed will there be no vowel?

- (a) One (b) Two (c) Three
(d) Four (e) None of the above

Directions (26-30): Study the following information and answer the questions that follow.

Eight people E, F, G, H, L, M, N, O are sitting in a straight line facing North. H is sitting second to the right of N and L is sitting fourth to the right of H. M is sitting to the right of F. Number of persons can sit between G and L is same as the number of persons are sitting between O and F. O is sitting to the immediate left of G who is not an immediate neighbor of L. F is not an immediate neighbor of N.

26. If all the given alphabets are arranged in ascending order from left to right, positions of how many of them will remain unchanged?

- (a) None (b) One (c) Two
(d) Three (e) More than three

27. Which amongst the following two are sitting at the corners?

- (a) N,M (b) E,L (c) O,E
(d) None of these (e) Cannot be determined

28. Based on the given arrangement, E is related to O and H is related to G in a same way as O is related to ?

- (a) M (b) F (c) L
(d) E (e) None of these

29. How many persons are sitting between E and M?

- (a) One (b) Two (c) Three
(d) Four (e) More than four

30. Who is sitting third to the left of H?

- (a) E
(b) N
(c) No one, as only two persons are sitting to the left of H.
(d) L
(e) None of these

31. If in a code language, LAUNCH is written as NCWPEJ and MARGIN is written as OCTIKP, how will WONDER be written in that code?

- (a) PQYFGT (b) YQPFGT (c) YQPGFT
(d) YQPTGF (e) None of these

32. If the letters in the word EQUALITY rearranged as they appear in the English alphabet then the position of how many letter will remain unchanged after the rearrangement?
 (a) None (b) One (c) Two
 (d) Three (e) More than three
33. If it is possible to make only one meaningful word with the first, the third, the fifth and the eight Numbers of the word SHAREHOLDING, which of the following will be the second letter of the word? If no such word can be made, give 'X' as the answer and if more than one such word can be made, give 'Y' as the answer.
 (a) L (b) E (c) S
 (d) X (e) Y
34. How many such pairs of Numbers are there in the 7693142, each of which has as many Numbers between them in the number, as they have in the numeric series?
 (a) None (b) One (c) Two
 (d) Three (e) More than three.
35. What should come in place of the questions mark (?) in the following series based on the above arrangement? AZZ DW3 GT5 JQ7 ?
 (a) LN9 (b) NM9 (c) MN9
 (d) MN11 (e) None of these

QUANTITATIVE APTITUDE

Directions (36-40): What will come in the place of the question mark (?) in the following number series?

36. 9, 11, 16, 26, ?, 69
 (a) 40 (b) 41 (c) 42
 (d) 43 (e) None of these
37. 3, 4, 10, 33, 136, ?
 (a) 700 (b) 590 (c) 695
 (d) 685 (e) None of these
38. 21, 24, 32, 45, 63, ?
 (a) 85 (b) 86 (c) 84
 (d) 82 (e) None of these
39. 6, 3, 3, 6, 24, ?
 (a) 192 (b) 191 (c) 190
 (d) 189 (e) None of these
40. 7, 10, 16, 28, ?, 100
 (a) 49 (b) 53 (c) 50
 (d) 51 (e) 52
41. 5% of one number (X) is 25% more than another number (Y). If the difference between the numbers is 96 then find the value of X?
 (a) 90 (b) 100 (c) 92
 (d) 96 (e) None of these
42. The ratio of A's age 3 years ago and B's age 5 years ago is 4:5. If A is 4 years younger than B then what is the present age of B?
 (a) 16 (b) 14 (c) 11
 (d) 15 (e) None of these
43. Two pipes A and B can fill a tank in 16 hrs and 12 hrs respectively. The capacity of the tank is 240 litres. Both the pipes are opened simultaneously and closed after 2 hrs each. How much more water (In Liters) needed to fill the tank?
 (a) 100 (b) 170 (c) 70
 (d) 190 (e) None of these
44. A person cover 32km downstream is 240 minutes and same person cover 48 km upstream in 1440 minutes. Then find the rate of current?
 (a) 4kmph (b) 5kmph (c) 3kmph
 (d) 2kmph (e) None of these
45. The simple interest on a certain sum at 15% per annum for 5 year is Rs1500 more to the simple interest on the same at 12% per annum for the same period. Find the sum-
 (a) Rs 12000 (b) Rs12500 (c) Rs 8000
 (d) Rs 10000 (e) None of these
46. The numerator of a fraction is decreased by 25% and the denominator is increased by 250%. If the resultant fraction is $\frac{6}{5}$, what is the original fraction?
 (a) $\frac{22}{5}$ (b) $\frac{24}{5}$ (c) $\frac{27}{6}$
 (d) $\frac{28}{5}$ (e) $\frac{30}{11}$
47. A dishonest vendor professes to sell fruits at the cost price but he uses a weight of 800 grams in lieu of 1 kg weight. Find his percentage gain.
 (a) 22% (b) 24% (c) 25%
 (d) 30% (e) 20%
48. A is 2.5 times as good workman as B and A is able to finish the work in 50 days less than B. Find the time in which they can do it working together.
 (a) $21\frac{5}{7}$ days (b) $23\frac{17}{21}$ days (c) $20\frac{3}{4}$ days
 (d) $25\frac{1}{2}$ days (e) $22\frac{11}{19}$ days

49. The total of the ages of a class of 60 girls is 900 years. The average age of 20 girls is 12 years and that of the other 20 girls is 16 years. What is the average age of the remaining girls?
 (a) 14 years (b) 15 years (c) 16 years
 (d) 17 years (e) none of these

50. Mr. Ankit invests 14% of his monthly income every month i.e. Rs. 1,750 in shares, 8% in Insurance policies and 7% in fixed deposits. What is the total annual amount invested by him?
 (a) Rs. 3275 (b) Rs. 3450 (c) Rs. 3625
 (d) Rs. 3800 (e) none of these

Directions (51-55): Given below is the table showing marks (out of 100) of 5 students A, B, C, D and E in class test on different days of a week.

	A	B	C	D	E
Monday	74	65	36	59	84
Tuesday	69	68	70	51	72
Wednesday	49	82	75	64	59
Thursday	55	72	62	70	68
Friday	67	56	77	81	74

51. What is the difference between total score of B on Monday, Wednesday and Thursday together and the total score of E on Tuesday, Wednesday and Friday together?
 (a) 12 (b) 14 (c) 10
 (d) 20 (e) None of these
52. Marks of E on Monday is what percent more than marks of B on Thursday?
 (a) 15% (b) $16\frac{2}{3}\%$ (c) 20%
 (d) 25% (e) None of these
53. What is the average marks scored by C on the given days?
 (a) 60 (b) 62 (c) 52
 (d) 64 (e) None of these
54. What is the ratio of total marks scored by C on Tuesday and Wednesday together to the total marks scored by D on the same days together?
 (a) 23 : 28 (b) 28 : 23 (c) 29 : 23
 (d) 23 : 29 (e) None of these
55. Total marks scored by E on all days together are how much more than total marks scored by A on all days together?
 (a) 43 (b) 45 (c) 55
 (d) 65 (e) None of these

Directions (56 - 70): What should come in place of question mark (?) in the following questions?

56. $36\% \text{ of } 170 + ? \% \text{ of } 592 = 150$
 (a) 14.6 (b) 17.8 (c) 16.4
 (d) 15 (e) None of these
57. $(12.11)^2 + (?)^2 = 732.2921$
 (a) 20.2 (b) 24.2 (c) 23.1
 (d) 19.2 (e) None of these
58. $288 \div ? \times 57 = 2052$
 (a) 8 (b) 7 (c) 6
 (d) 9 (e) None of these
59. $(1125 - 274 - 323) \div (875 - 654 - 155) = ?$
 (a) 9 (b) 6 (c) 7
 (d) 8 (e) None of these
60. $(882 \div 6.3) \times 26 = ?$
 (a) 3482 (b) 3840 (c) 5061
 (d) 3618 (e) None of these
61. $115\% \text{ of } 4880 - 85\% \text{ of } 1640 = ?$
 (a) 4218 (b) 4368 (c) 4448
 (d) 4628 (e) None of these
62. $3251 + 587 + 369 - ? = 3007$
 (a) 1250 (b) 1300 (c) 1375
 (d) 1400 (e) None of these
63. $21 \times 7921 = ? + 89$
 (a) 166254 (b) 166259 (c) 166253
 (d) 166252 (e) None of these
64. $18.6 \times 3 + 7.2 - 16.5 = ? + 21.7$
 (a) 35.7 (b) 21.6 (c) 24.8
 (d) 27.6 (e) None of these
65. $5.35 + 4.43 + 0.45 + 45.34 + 534 = ?$
 (a) 597.27 (b) 589.57 (c) 596.87
 (d) 596.67 (e) None of these
66. $33 \times 1331 = 121 \times ?$
 (a) 443 (b) 673 (c) 363
 (d) 303 (e) None of these
67. $0.5\% \text{ of } 674 \text{ of } 0.8\% \text{ of } 225 = ?$
 (a) 7.066 (b) 9.12 (c) 6.066
 (d) 5.17 (e) None of these
68. $66 \times 66 - 34 \times 34 = ?$
 (a) 2878 (b) 3200 (c) 3608
 (d) 3456 (e) None of these
69. $56\% \text{ of } 225 + 20\% \text{ of } 150 = ? - 109$
 (a) 49 (b) 103 (c) 53
 (d) 47 (e) None of these
70. $12\% \text{ of } 1885 = ? \div 6$
 (a) 1248.4 (b) 1292.2 (c) 1312.6
 (d) 1357.2 (e) None of these

ENGLISH LANGUAGE

Directions (71–80): Read the following passage carefully and answer the questions given below it. Certain words/phrases are given in bold to help you locate them while answering some for the questions.

King Hutamasan felt he had everything in the world not only due to his riches and his noble knights, but because of his beautiful queen, Rani Matsya. The rays of the sun were put to shame with the iridescent light that Matsya illuminated, with her beauty and brains. At the right hand of the king she was known to sit and aid him in all his judicial probes. You could not escape her deep-set eyes when you committed a crime as she always knew the victim and the culprit. Her generosity preceded her reputation in the kingdom and her **hands** were always full to give. People in the kingdom **revered** her because if she passed by, she always gave to the compassionate and poor.

Far away from the kingly palace lived a man named Raman, with only ends to his poverty and no means to rectify it. Raman was wrecked with poverty as he had lost all his land to the landlord. His age enabled him little towards manual labour and so begging was the only alternative to salvage his wife and children. Every morning he went door to door for some work, food and money. The kindness of people always got him enough to take home. But Raman was a little self-centered. His world began with him first, followed by his family and the rest. So he would eat and drink to his delight and return home with whatever he found excess. This routine followed and he never let anyone discover his interests as he always put on a long face when he reached home.

One day as he was relishing the bowl of rice he had just received from a humble home, he heard that Rani Matsya was to pass from the very place he was standing. Her generosity had reached his ears and he knew if he pulled a long face and showed how poor he was, she would hand him a bag full of gold coins-enough for the rest of his life, enough to buy food and supplies for his family. He thought he could keep some coins for himself and only **reveal** a few to his wife, so he can fulfill his own wishes.

He ran to the chariot of the Rani and begged her soldiers to allow him to speak to the queen. Listening to the arguments outside Rani Matsya opened the curtains of her chariot and asked Raman what he wanted. Raman went on his knees and praised the queen, "I have heard you are most generous and most chaste, show this beggar some charity. Rani narrowed her brows and asked Raman what he could give her in return. Surprised by such a question, Raman looked at his bowl full of rice. With spite in him he

just picked up a few grains of rice and gave it to her. Rani Matsya counted the five grains and looked at his bowl full of rice and said, you shall be given what is due to you. Saying this, the chariot **galloped** away.

Raman abused her under his breath. This he never thought would happen. How could she ask him for something in return when she had not given him anything? Irritated with anger he stormed home and gave his wife the bowl of rice. Just then he saw a sack at the entrance. His wife said some men had come and kept it there. He opened it to find it full of rice. He put his hand inside and caught hold of a hard metal only to discover it was a gold coin. **Elated** he upturned the sack to find five gold coins in exact for the five rice grains. If only I had given my entire bowl, thought Raman, I would have had a sack full of gold.

71. According to the passage, which of the following is definitely true about Rani Matsya?
- (A) She was beautiful
 - (B) She was intelligent
 - (C) She was kind
 - (a) Only (A)
 - (b) Only (B)
 - (c) Only (C)
 - (d) Only (A) and (C)
 - (e) All the three (A), (B) and (C)
72. What does the phrase 'pulled a long face', as used in the passage mean?
- (a) Scratched his face
 - (b) Looked very sorrowful
 - (c) Disguised himself
 - (d) Put on makeup
 - (e) None of these
73. What can possibly be the moral of the story?
- (a) Do onto others as you would want others to do to you.
 - (b) Patience is a virtue.
 - (c) Winning is not everything, it is the journey that counts.
 - (d) Change is the only constant thing in life.
 - (e) Teamwork is more we and less me
74. Why was begging the only option for Raman to get food?
- (a) Raman belonged to a family of beggars.
 - (b) Begging was the easiest way for him to obtain food.
 - (c) Raman's family had forced him to beg.
 - (d) He had lost all his property and was too old to do manual work.
 - (e) None of these

75. Which of the following words can be used to describe Raman?

- (A) Deceitful (B) Selfish (C) Timid
 (a) Only (A) (b) Only (B)
 (c) Only (A) and (B) (d) Only (B) and (C)
 (e) All the three (A), (B) and (C)

76. Choose the word which is most similar in meaning to the word given below, as used in the passage.

GALLOPED

- (a) hurtled (b) stumbled (c) slumbered
 (d) jumped (e) ran

77. Choose the word which is most similar in meaning to the word given below, as used in the passage.

REVERED

- (a) remembered (b) feared
 (c) talked about (d) embraced
 (e) respected

78. Choose the word which is most similar in meaning to the word given below, as used in the passage.

HANDS

- (a) arm (b) throw (c) give
 (d) limb (e) lend

79. Choose the word which is most opposite in meaning to the word given below, as used in the passage.

REVEAL

- (a) stop (b) conceal (c) present
 (d) pending (e) tell

80. Choose the word which is most opposite in meaning to the word given below, as used in the passage.

ELATED

- (a) afraid (b) poor (c) happy
 (d) depressed (e) grounded

Directions (81-90): Find out the error, if any. If there is no error, the answer is (e), i.e. No error. (Ignore the errors of punctuation, if any.)

81. Despite of their best efforts (a)/ they failed to retain (b)/ the contract due to (c)/ unwanted political interference. (d)/ No error (e).

82. We had decided (a)/ to scrap the project (b)/ but the chairman insisted with (c)/ its continuation on the same terms. (d)/ No error (e).

83. Because of his prolonged illness (a)/ he could not concentrate (b)/ on his studies although (c)/ he was very much desired to do so. (d)/ No error (e).

84. You must realize (a)/ how importance it is (b)/ to give away to the needy (c)/ whatever you possess in excess. (d)/ No error (e).

85. Most of the travellers experienced (a)/ a shock when they arrived (b)/ at the museum only to find (c)/ that it had been burgled. (d)/ No error (e).

86. How people do (a)/ to earn their bread (b)/ is dependent largely on (c)/ the locality where they live. (d)/ No error (e).

87. He took a sharp knife (a)/ and torn the covering. (b)/ made of cardboard (c)/ but could not open the packet. (d)/ No error (e).

88. All of us are aware that (a)/ Shankar has been suffering (b)/ from fever since ten days (c)/ and has been resting. (d)/ No error (e)

89. Both of them genuinely helped (a)/ each other when their (b)/ families were going (c)/ through a bad patch. (d)/ No error (e)

90. Some people have (a)/ generously contributed to the welfare fund (b)/ but they wanted that there names (c)/ should not be published. (d)/ No error (e).

Directions (91-100): In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options given against each number and fill up the blanks with appropriate words to make the paragraph meaningfully complete.

Once upon a time there was a prince who wanted to marry a princess; but she would have to be a real princess. He ...**(91)**... all over the world to find one, but nowhere could he get what he wanted. One evening during a terrible storm; there was thunder and lightning, and the rain poured down in torrents. Suddenly a knocking was ..**(92)**.. at the palace door, and the old king went to open it. It was a princess standing out there. But, good gracious ! What a sight the rain and the wind had made her look. The water ran down her hair and clothes; into the toes of her shoes and out again at the heels. And yet she insisted that she was a real princess. Well, we'll soon ...**(93)**... out, thought the old queen. But she said nothing, went into the bedroom, took all the bedding off the bedstead, and ..**(94)**.. a pea on the bottom; then she took twenty mattresses and laid them on the pea, and then twenty quilts on ...**(95)**... of the mattresses. On this the princess had to lie all night. In the ..**(96)**.. she was asked how she had slept. "Oh, very badly !" said she. "I scarcely closed my eyes all night. Heaven only knows what was in the bed. But I was lying on something hard, as a...**(97)**... I am black and blue all over my body. It's horrible !" Now they knew that she was a real princess because she had ..**(98)**.. the pea right through the twenty mattresses and the twenty quilts. Nobody but a real princess could be as irritable ..**(99)**.. as that. So the prince took her for his wife, for now he ...**(100)**... that he had a real princess.

- 91. (a) called (b) tour (c) sent (d) saw (e) travelled
- 92. (a) made (b) felt (c) heard (d) seen (e) sounded
- 93. (a) assure (b) find (c) judge (d) mark (e) try
- 94. (a) drew (b) flung (c) placed (d) cooked (e) stitch
- 95. (a) top (b) head (c) bottom (d) between (E) middle

- 96. (a) morning (b) dinner (c) room (d) fields (e) dark
- 97. (a) vengeance (b) price (c) cause (d) result (e) time
- 98. (a) slept (b) felt (c) located (d) carried (e) found
- 99. (a) worried (b) rough (c) irritable (d) sensitive (e) pretty
- 100. (a) trust (b) assured (c) wanted (d) think (e) knew

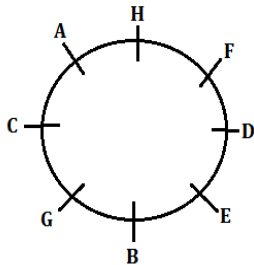
Solutions

REASONING ABILITY

Direction (1-5)

- 1. (e); $Q < F(\text{True})H < F(\text{True})$
- 2. (b); $D \geq I(\text{False})E \geq K(\text{True})$
- 3. (e); $V < R(\text{True})W < R(\text{True})$
- 4. (d); $F > T(\text{False})F = R(\text{False})$
- 5. (a); $M > L(\text{True})M < H(\text{False})$

Direction (6-10)

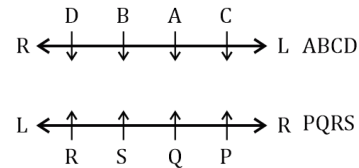


- 6. (a); 7. (d); 8. (c);
- 9. (b); 10. (e);
- 11. (a); $L=7^{\text{th}}$
 $R=6^{\text{th}}$

 $R=13^{\text{th}}$
- 12. (c); %9,#7,©4
- 13. (e); E@Z
- 14. (d); \$L, ★ B, @Z
- 15. (b); $L=4^{\text{th}}$
 $R=12^{\text{th}}$

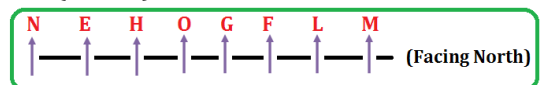
 $R=16^{\text{th}}$

Direction (16-20)



- 16. (b); 17. (c); 18. (b);
- 19. (d); 20. (d);
- 21. (b); After changing the words become:
 TGE MND COU RAM SGE
 Hence, there is only one word COU having more than one vowel.
- 22. (b); After changing, the words become
 EHT DMO CPU BMR EHS
- 23. (a); Third letter of the second word from left is D.
 Second letter of the second word from right is B.
 There are one letters between B and D.
 B C D
- 24. (b); After arranging the words, we get
 CPU MOD RBM SHE THE
 ↓
 Fourth from left
- 25. (c); After changing, we get
 THE MOD CPU
 ↓↓↓ ↓↓↓ ↓↓↓
 SGF LPC BOV
 RBM SHE
 ↓↓↓ ↓↓↓
 QAL RGF
 Hence there are three words which have no vowel.

Direction (26-30):



26. (a); 27. (a); 28. (b);

29. (e); 30. (c);

31. (b); +1..+1...+1...+1..

32. (b);

E	Q	U	A	L	I	T	Y
A	E	I	L	Q	T	U	Y

33. (e); SALE, SEAL

34. (c);

35. (d); Opposite of M is N and followed by Prime number.

QUANTITATIVE APTITUDE

36. (d);

9	11	16	26	?	69
2	5	10	17	26	
3	5	7	9		
		? = 43			

37. (d); $(\times 1 + 1), (\times 2 + 2), (\times 3 + 3) \dots$
 $136 \times 5 + 5 = 685$

38. (b);

21	24	32	45	63	?
3	8	13	18	23	
5	5	5	5		
		? = 86			

39. (a); $(\times 0.5), (\times 1), (\times 2), (\times 4), (\times 8)$
 $24 \times 8 = 192$

40. (e);

7	10	16	28	?	100
3	6	12	24	48	
		? = 52			

41. (b); $0.05(X) = \frac{125}{100}(Y)$
 $X - Y = 96$
 $Y = 4, X = 100$ 42. (d); $A = B - 4$

$$\frac{(B-4)-3}{B-5} = \frac{4}{5}$$

$$B = 15, A = 11$$
43. (b); Per hour fill by A & B = $\frac{1}{16} + \frac{1}{12} = \frac{7}{48}$ Tank filled in 2 hours = $\frac{14}{48} \times 240 = 70 \ell$ Water needed to fill the tank = $240 - 70 = 170 \ell$

44. (c); Let speed of person = x kmph

Speed of current = y kmph

 $x + y = 8 \Rightarrow x - y = 2$ $x = 5 \text{ kmph}, y = 3 \text{ kmph}$

45. (d); 75% of P - 60% of P = 1500

P = Rs. 10000

46. (d); $\frac{x - \frac{25x}{100}}{y + \frac{250y}{100}} = \frac{6}{5} \Rightarrow \frac{75x}{350y} = \frac{6}{5}$ $75x = 420y$ $\frac{x}{y} = \frac{420}{75} \Rightarrow \frac{x}{y} = \frac{28}{5}$ 47. (c); Percentage gain = $\frac{200}{800} \times 100 = 25\%$ 48. (b); Let B's 1 day work = $\frac{1}{x}$ \therefore A's 1 day work = $\frac{1}{x} \times \frac{5}{2}$ Now, $\frac{2x}{5} = x - 50$ $\frac{3x}{5} = 50 \Rightarrow x = \frac{250}{3}$ \therefore Required days = $\frac{1}{\frac{3}{250} + \frac{3}{100}} = \frac{500}{6+15} = 23\frac{17}{21}$ 49. (d); $20(12) + 20(16) + 20x = 900$ $20x = 900 - 240 - 320$ $20x = 340$ $x = 17 \text{ years}$ 50. (e); Monthly salary = $\frac{1750 \times 100}{14} = 12500$

Total monthly salary invested by him

 $= \frac{(14+8+7)}{100} \times 12500 = 3625$ Annual investment = $12 \times 3625 = 43500$ 51. (b); Required difference = $(65 + 82 + 72) - (72 + 59 + 74)$
 $= 219 - 205 = 14$ 52. (b); Required percentage = $\frac{(84-72)}{72} \times 100 = 16\frac{2}{3}\%$ 53. (d); Required average = $\frac{320}{5} = 64$ 54. (c); Required ratio = $\frac{(70+75)}{(51+64)} = 29 : 23 = 29 : 23$ 55. (a); Required difference = $357 - 314 = 43$ 56. (d); $61.2 + ? \times 5.92 = 150$ or, $? = \frac{88.8}{5.92} = 15$ 57. (b); $?^2 = 732.2921 - 146.6521$ or $? = 24.2$ 58. (a); $? = \frac{288 \times 57}{2052} = 8$ 59. (d); $528 \div 66 = 8$ 60. (e); $? = (882 \times 6.3) \times 26 = 3640$ 61. (a); $? = 5612 - 1394 = 4218$ 62. (e); $? = 4207 - 3007 = 1200$

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REASONING ABILITY

Directions (1-5): Study the following information carefully and answer the questions given below:

Eight persons sit in a row such that some of them are facing in the north direction and some are facing in the south direction.

Note: No two adjacent persons are sitting according to the English alphabetical series for example, P is not an immediate neighbor of both O and Q, and so on.

C sits third from one of the extreme ends of the row. A sits third to the left of C. Only one person sits between A and B. Three persons sit between D and E. As many persons sit to the left of E as to the left of H. H faces north direction. Immediate neighbors of C face same direction. Persons sitting at the extreme end faces the same direction. G sits to the left of F. E faces opposite direction as A. Immediate neighbors of G faces the opposite direction. G does not face north direction.

- How many persons sit between B and E?
(a) One (b) Two (c) Three
(d) Four (e) More than four
- Who among the following sits third to the right of H?
(a) F (b) E (c) D
(d) G (e) A
- Four of the following five are alike in a certain way and hence form a group which of the following does not belong to the group?
(a) FC (b) CH (c) GA
(d) DC (e) HE
- How many persons face south direction?
(a) Four (b) Two (c) Three
(d) One (e) More than four
- Which of the following statement is not true?
(a) H sits immediate left of E
(b) A sits between H and C
(c) D sits at an extreme end
(d) C sits immediate left of F.
(e) No one sits between A and G.

Directions (6-7): In each of the questions below. Some statements are given followed by conclusions/group of conclusions. You have to assume all the statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusion given in the options logically follow from the information given in the statements:

- Statements: Only a few paint is color. No color is fabric. Only a few fabric is enamel.
(a) Some fabric is paint
(b) All paint can be fabric
(c) All enamel can be color
(d) Some paint is enamel
(e) All color can be paint
- Statements: Only a few brush is nail. Only a few home is buyer. Some buyer is nail.
(a) Some buyer is not nail.
(b) Some nail is not home
(c) All brush is buyer
(d) Some brush is not nail.
(e) All home can be buyer.

Directions (8-10): Digits in the number given in each of the following questions are to be coded based on the codes and the conditions given below:

Elements	V	7	#	T	&	U	2	E	A
Codes	1	@	n	9	h	*	f	!	\$

Conditions:

- If first element is even number and last element is symbol then the codes for both of them is interchanged.
- If any vowel is preceded by an odd number then their codes will be code of the odd number.
- If the first element is odd number and last element is consonant then their codes will be the code of the first element.
- If any consonant is succeeded by symbol then their codes will be the code of the symbol.

Note: In each case either no or one or more than one condition is followed.

- What is the code for 27AU#?
(a) n@\$fn (b) n@@*f (c) f@@*f
(d) f@@*n (e) n\$@nf
- What is the code for 7VU&A?
(a) @1*h\$ (b) \$1*h@ (c) \$1*h\$
(d) @1*h@ (e) None of these
- What is the code for 7T&2V?
(a) @h9f@ (b) @hh@f (c) @hhf@
(d) 1h9f@ (e) 1h9f1

Directions (11-13): In each of the questions below. Some statements are given followed by conclusions/group of conclusions. You have to assume all the statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusion given in the options logically follow from the information given in the statements:

- 11.** Statements: Some nail is paint. Only a few paint is oil. All oil is dark.
 (a) No dark is paint
 (b) Some dark can be nail.
 (c) Some paint can be dark.
 (d) Some oil is nail.
 (e) Some oil is not paint.
- 12.** Statements: Only a few brush is wallet. All brush is money. Some money is enamel.
 (a) Some enamel is wallet.
 (b) Some money is not brush.
 (c) All brush can be wallet.
 (d) Some enamel is not money.
 (e) All wallet can be brush.
- 13.** Statements: No nail is pain. No body is pain. Only a few pain is arm.
 (a) Some arm is body.
 (b) Some body is nail.
 (c) All nail can be arm.
 (d) Some arm is not pain.
 (e) All arm can be body.
- 14.** Six persons A, B, C, D, E and F go to office on six different days of the week from Monday to Saturday. A go before Wednesday. Only two persons go between A and D. Three persons go between D and F. B goes after D. E goes before D but not immediately before D. In which of the following days C go to office?
 (a) Monday (b) Tuesday (c) Wednesday
 (d) Thursday (e) None of these

Directions (15-19): Study the following information carefully and answer the questions given below:
 Eight persons A, B, C, D, E, F, G and H sits around a circular table facing towards the center of the table. All of them go to eight different cities.

Only one person sits between F and the one who go to Pune. Three persons sit between the one who go to Pune and the one who go to Mumbai. D sits third to the left of the one who go to Pune. The one who is from Chennai sits second to the right of D. Three persons sit between the one who go to Chennai and the one who go to Bengaluru. H sits second to the right of G. H go to Delhi. G sits third to the left of A. The one who go to Chandigarh sits third to the left of G. B sits immediate right of the person who go to Jaipur. C does not go to Mumbai and Kolkata. E does not go to Chandigarh.

- 15.** Who among the following go to Chandigarh?
 (a) A (b) C (c) D
 (d) B (e) G
- 16.** How many persons sit between A and G when counted from right of G?
 (a) Two (b) Three (c) Four
 (d) Five (e) One
- 17.** Who among the following sits second to the left of the one who is from Chennai?
 (a) G (b) A (c) D
 (d) B (e) C
- 18.** F go to which of the following city?
 (a) Mumbai (b) Jaipur (c) Bengaluru
 (d) Chennai (e) Kolkata
- 19.** Which of the following is true regarding B?
 (a) B sits immediate left of D
 (b) B go to Chennai
 (c) B sits third right of A.
 (d) C is immediate neighbor of B.
 (e) B go to Bengaluru.

Direction (20): Study the following information carefully and answer the questions given below:

There are six persons of different weights. Three persons are heavier than Rohan. Two person's weight is in between Sohan and Geeta. Rajesh is heavier than Rakesh but lighter than Ram. Neither Rakesh nor Geeta is lightest person. Weight of 2nd heaviest person is 66kg. Weight of all persons are in whole numbers.

- 20.** What is the weight of Sohan?
 (a) 67kg (b) 65kg (c) 64kg
 (d) 63kg (e) 62kg

Direction (21-24): Study the following information carefully and answer the questions given below:

P@Q: It means that P is in East of Q

P#Q: It means that P is in West of Q

P\$Q: It means that P is in North of Q

P%Q: It means that P is in South of Q

P(7)\$Q means that P is 7m North of Q

P\$@Q means that P is in North-east of Q

Paul and Raj are starting their journey from point V and U respectively and both reaches at point W as per the given information-

Paul- R(13)#V, S(8)%R, T(5)@S, X(4)%T, Y(10)#X, W(15)\$Y

Raj- J(5)#U, K(11)\$J, L(11)@K, M(4)\$L, N(5)@M, W(10)%N

- 21.** If point A(2)%R then, what is the direction and shortest distance of A with respect to U?
 (a) A(15)\$@U (b) A(16)@U (c) A(16)\$@U
 (d) A(15)@U (e) None of these

22. Which of the following is true?
 (a) M\$@X (b) U%@N (c) U#R
 (d) J%#V (e) None is true
23. If B(5)@L and C(8)#W are true then, what is the shortest distance between B and C?
 (a) 5m (b) 10m (c) 15m
 (d) 20m (e) None of these
24. U is in which direction with respect to V?
 (a) U\$@V (b) U%@V (c) U%#V
 (d) U#V (e) None is true

Direction (25-29): Study the following information carefully and answer the questions given below:

Eleven persons buy things one after another. Only five persons buy things after P. Three persons buy things between P and Q. R buy things after S and before T. There are as many persons buy things before U as after V. More than three persons buy things between W and X who buy things just after P. Y buy things before Z and after R. No one buy things after T. Y buy things just after V. U buys after Q.

25. Who among the following buy things between X and Z?
 (a) U and Y (b) U and V (c) V and Y
 (d) P and Y (e) None of these
26. Four of the following five are alike in certain way and hence form a group, find the one which does not belong to that group?
 (a) QR (b) UX (c) WU
 (d) XY (e) PY
27. Which of the following statement is true?
 (a) R buy things before U
 (b) More than two persons buy things before S
 (c) No one buy things before Q
 (d) P buy things after Z
 (e) None is true
28. How many persons buy things between Y and R?
 (a) Three (b) Five (c) Seven
 (d) Four (e) None of these
29. Who among the following buy things just after U?
 (a) Q (b) R (c) S
 (d) T (e) None of these

Direction (30-32): Study the following information carefully and answer the questions given below:

A meaningful eight letter word is going to be formed. No two letters of this word are same. There are three letters between S and N. C is 2nd to the left of U which is to the left of T. D is either at extreme left or at extreme right. There are at least two letters between D and O which is immediate left of U. T is at immediate right of N. I is not at extreme end.

30. What is the position of I with respect to C?
 (a) 3rd to the right (b) 3rd to the left (c) 2nd to the right
 (d) 2nd to the left (e) None of these
31. Which of the following letter is 2nd from extreme left end?
 (a) C (b) I (c) O
 (d) U (e) None of these
32. Which of the following is true regarding I?
 (a) I is not an immediate neighbor of D
 (b) Three letters are between I and C
 (c) S is at immediate left of I
 (d) T is not at extreme end
 (e) None is true

Direction (33-37): Study the following information carefully and answer the questions given below:

Eight persons were born at different months in different years i.e. 1983, 1984, 1985, 1986. Two persons were born in each year. Ages are measured from 1st January 2020. Every person was born on 1st of every month.

There are 11 months gap between the births of L and K. Q and L were born in the month of 30 days. J is younger than N. P and L were born in same year. O was born just before K who is youngest, and both were born in the month which have 31 days. M is not less than 37 year. There are as many persons were born before Q as after L. There are 17 months difference between the age of M and J. There are 13 months difference between the ages of P and O. P was born before April. N was born on October.

33. What is the age of Q?
 (a) 35 years 7 months
 (b) 35 years 8 months
 (c) 35 years 9 months
 (d) 36 years 3 months
 (e) None of these
34. Who among the following was born on September 1985?
 (a) N (b) M (c) O
 (d) Q (e) None of these
35. Which of the following is true?
 (a) N was born on June
 (b) Q was born before the person who was born on September
 (c) L was born before July
 (d) Three persons were born between N and O
 (e) None is true
36. Four of the following five are alike in certain way and hence form a group, find the one which does not belong to that group?
 (a) M (b) N (c) J
 (d) O (e) K

37. In which of the following month youngest person was born?

- (a) March (b) May (c) June
(d) August (e) None of these

Direction (38-42): Study the following information carefully and answer the questions given below:

In a certain code language:

“group rate drive dare” is coded as “@£ \$# ©¥ ©®”

“nose final read less” is coded as “®¥ αμ %¥ Ω%”

“gear other mind most” is coded as “@¥ £& ®β Ω¥”

38. What is the code of “sure”?

- (a) ©® (b) &α (c) %£
(d) ¥€ (e) None of these

39. What may be the code of “green grass”?

- (a) Ω© £∅ (b) Ω\$ ∅© (c) ∅\$ Ω©
(d) £∅ Ω\$ (e) None of these

40. If “epic” is coded as “□Ω” then, what is the code of “care”?

- (a) #\$(b) *& (c) @%
(d) □® (e) None of these

41. Which of the following word may have code “&£”?

- (a) Image (b) True (c) This
(d) Then (e) None of these

42. Which of the following may have the code “□Ω %©”?

- (a) Night Match (b) Great Walk (c) Close Fight
(d) Nice Draw (e) None of these

Directions (43-47): In the following questions, the symbols @, #, \$, % and & are used with the following meaning as illustrated below-

‘P@Q’ means ‘P is neither smaller than nor equal to Q’

‘P#Q’ means ‘P is neither greater than nor equal to Q’

‘P\$Q’ means ‘P is neither smaller than nor greater than Q’

‘P%Q’ means ‘P is not greater than Q’

‘P&Q’ means ‘P is not smaller than Q’

Now in each of the following questions assuming the given statements to be true, find which of the three conclusions I, II and III given below them is/are **definitely true** and give your answer accordingly.

43. **Statement:** N@V\$W, W%K#L, L%R

- Conclusions:** I. L@N II. K#R
III. V%R

- (a) Only I
(b) Both II and III
(c) Only I and II
(d) Only II
(e) All I, II, III

44. **Statement:** J#K&L, L@M\$O, O@N%G

- Conclusions:** I. G&M II. K@O
III. M@G

- (a) Either I or III
(b) II and Either I or III
(c) Only I
(d) I and Either II or III
(e) Both I and II

45. **Statement:** N#M&L; L#J&O; O&V

- Conclusions:** I. M@N II. J#V
III. L%N

- (a) Only I (b) Only II (c) Both I and II
(d) Both II and III (e) None of these

46. **Statement:** A@B&D; D%E#F; H@G&D

- Conclusions:** I. D#A II. F@D
III. H%E

- (a) Both I and II (b) Only II (c) Both II and III
(d) Only I (e) All I, II, III

47. **Statements:** H#G; H#I&J; M#F%I

- Conclusions:** I. G%J II. F@H
III. I@M

- (a) Both I and II (b) Only I (c) Only III
(d) Both I and III (e) Only II

Directions (48-50): Each of the questions below consists of a question and two statements numbered as I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the two statements and give answer.

48. Five persons live on a building of five floors. The ground floor is numbered as 1, floor just above is numbered as 2 and so on till the topmost floor which is numbered as 5. On which floor X lives?

I. A lives above 3rd floor. Two persons live between X and Y. X lives above A.

II. Two persons live between X and Y. X lives just above C. Y lives below X.

- (a) Only I
(b) Only II
(c) Either I or II
(d) Neither I nor II
(e) Both I and II

49. What is the direction of L with respect to O?

I. A is 10m north of L. M is 25m north of L. B is 10m south of O.

II. M is 5m west of B. A is 15m south of M. L is 10m south of A.

- (a) Either I or II (b) Only II (c) Both I and II
(d) Only I (e) Neither I nor II

50. Five students P, Q, W, S and V have different heights. Who is the tallest person among them?

I. P is taller than Q, but he is not the tallest. Q is shorter than W.S is shorter than V.

II. Only three persons are shorter than P. Q is shorter than P and V. W is taller than S.

- (a) Only II (b) Neither I nor II (c) Only I
(d) Either I or II (e) Both I and II

QUANTITATIVE APTITUDE

Directions (51–56): Read the data carefully and answer the questions.

There are 3 colleges A, B, C offering 3 courses mechanical engineering (ME), chemical engineering (CE) & electrical engineering (EE).

College A: Number of students in ME is 40 less than that of in EE and number of students in CE is 50% more than that of in ME.

College B: Number of students in EE is 20 less than that of in EE in college A. Number of students in CE is 340 which is 40 more than that of in CE in college A. Number of students in EE is $22\frac{2}{9}\%$ more than that of in ME.

College C: Number of students in ME is 40% less than that of in ME in college A. Number of students in CE is 40 less than that of in ME.

Total students in EE in all colleges together are 780.

- 51.** How many students are in college C?
 (a) 620 (b) 740 (c) 560
 (d) 680 (e) 520
- 52.** If 10% students of ME course from college A shifted to CE course in college C, then what is the difference between total number of students in CE in college C now and average of students in ME in all colleges now?
 (a) 60 (b) 380 (c) 260
 (d) 80 (e) 180
- 53.** Number of students in EE in college B are what percent more/less than number of students in ME in college C?
 (a) 75% (b) $87\frac{1}{3}\%$ (c) $83\frac{1}{3}\%$
 (d) $66\frac{2}{3}\%$ (e) 50%
- 54.** What is the ratio of total number of students in ME & CE together in college A to total number of students in CE & EE together in college B?
 (a) 23 : 27 (b) 25 : 28 (c) 26 : 25
 (d) 25 : 26 (e) 27 : 28
- 55.** What is the difference between average of total number of students in EE in all colleges and average of total number of students in CE in all colleges?
 (a) 30 (b) 60 (c) 40
 (d) 20 (e) 50
- 56.** Total students in college C are what percent of total students in college A? (approx.)
 (a) 79% (b) 70% (c) 100%
 (d) 73% (e) 85%

- 57.** A shopkeeper sets MRP of a product such that after giving 10% discount, he earns 12.5% profit. What will be his profit/loss percent if he allows a discount of 25%?
 (a) 5% (b) 10.45% (c) 8.33%
 (d) 6.25% (e) 9.09%
- 58.** A alone can fill a tank in 16 mins and B alone can fill the same tank in 'X' mins. C alone can empty the tank in 12 mins. A, B, and C together take $34\frac{2}{7}$ min to fill the tank. What is the time taken by B alone to fill the tank?
 (a) 12 min (b) 16 min (c) 20 min
 (d) 24 min (e) 18 min
- 59.** A container contain 96 litre mixture of milk and water out of which 35% is water. 20 lit of mixture is taken out and 10 litre milk & 16 litre water are added in remaining mixture. Find the difference between quantity of milk and water in the final mixture after replacement.
 (a) 15.4 lit (b) 16.8 lit (c) 18.2 lit
 (d) 21.4 lit (e) 19.8 lit
- 60.** Train A having length 180 m crosses a platform thrice of its length in 36 sec. Train B having speed of 63 kmph crosses a standing man in 8 sec. find the time taken by both trains to cross each other when running in same direction.
 (a) 100 sec (b) 120 sec (c) 128 sec
 (d) 64 sec (e) 92 sec

Directions (61-66): Given table shows the total number of boys & girls in a class in 5 different years and percentage of boys & girls who participated in an event and percentage of total students who did not participate in event. Some data are missing which you have to calculate as per the information provided in question. Read the data carefully and answer the questions.

Year	Total number of Boys & Girls in class	% of boys participated in event	% of girls participated in event	% of (boys + girls) not participated in event
2015	---	65	---	30
2016	360	---	25	15
2017	180	25	---	25
2018	300	---	80	10
2019	---	45	---	40

- 61.** If there are 20% more students in 2019 as compared to previous year and number of girls who didn't participate in 2019 are 12, then what is the difference between no. of boys who participated in 2019 and total students who didn't participate in 2016?
 (a) 68 (b) 54 (c) 72
 (d) 44 (e) 84

62. Find ratio of no. of students who didn't participate in 2017 to no. of boys who participated in 2018 if all boys participated in 2018?
(a) 3 : 10 (b) 13 : 10 (c) None of these
(d) 5 : 8 (e) 7 : 10
63. If average of total no. of students in 2015, 2016 & 2017 is 260 and 23 girls didn't participate in 2015, then find the difference between no. of boys and girls who participated in 2015?
(a) 6 (b) 36 (c) 42
(d) 14 (e) 26
64. Find average no. of students who didn't participate in 2016, 2017 & 2018.
(a) 39 (b) 44 (c) 41
(d) 46 (e) 43
65. If ratio of total boys to total girls in 2018 is 3 : 2, then boys who didn't participate in 2018 are what percent of total girls who participated in 2018?
(a) $16\frac{2}{3}\%$ (b) 25% (c) $6\frac{1}{4}\%$
(d) 5% (e) $8\frac{1}{3}\%$
66. If there are 200 boys in class in 2019 and number of girls who didn't participate in 2019 is 5 more than no. of students who didn't participate in 2017 then what is the ratio of no. of girls who participated in 2019 to total students who participated in 2018?
(a) 5 : 9 (b) Cannot be determined
(c) 20 : 27 (d) 5 : 8 (e) 5 : 6

Directions (67-68): Read the information carefully and answer the questions.

A and B started a business by investing Rs 6000 & Rs 12000 respectively. A left business after 'X' months and at same time C joined B with Rs 7000. At the end of year, ratio of their profit share (A : B : C) is 18 : 48 : Z.

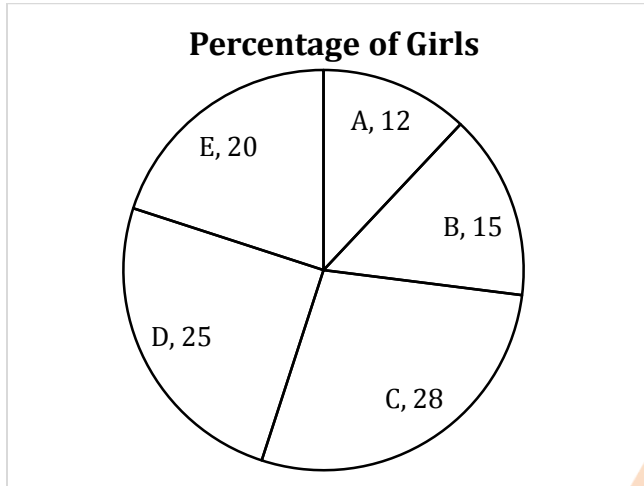
67. Find 'X'.
(a) 8 (b) 6 (c) 9
(d) 7 (e) 10
68. Find value of Z.
(a) 27 (b) 18 (c) 24
(d) 21 (e) 15
69. Present age of Father and mother is in ratio of 12 : 11 and after 12 years, this ratio becomes 15 : 14. Age of father is 22 years more than his son and age of mother is 20 years more than that of her daughter. Find sum of present age of son & daughter.
(a) 54 yrs (b) 48 yrs (c) 52 yrs
(d) 46 yrs (e) 50 yrs
70. Difference between total CI and total SI on a certain sum at 20% per annum for 2 years is Rs 420. What will be the simple interest earned on same sum at 25% per annum for 3 years?
(a) Rs 5725 (b) Rs 7875 (c) Rs 6525
(d) Rs 7000 (e) Rs 7375

Directions (71-75): What approximate value should come in place of question mark (?) in following questions. You are **not** expected to calculate the exact value.

71. $40.05 \div 4.89 + ? = 72.93 - 18.95$
(a) 36 (b) 42 (c) 52
(d) 46 (e) 58
72. $9.87 \times 16.08 - 55.03 \div 10.92 = ? + 54.98$
(a) 100 (b) 115 (c) 85
(d) 92 (e) 108
73. $63.08 + 67.98 - 43.11 + ? = 89.93$
(a) 6 (b) 15 (c) 2
(d) 11 (e) 17
74. $79.87 + 23.06 = 12.98 \times 7.13 + ?$
(a) 2 (b) 21 (c) 7
(d) 17 (e) 12
75. $520.07 \div 13.02 - 3.89 \times 10.09 + 33.88 = ?$
(a) 39 (b) 34 (c) 29
(d) 25 (e) 45
76. A and B invested Rs 6000 and Rs 12000 respectively in a business. After 6 months, C joined them and B left after 9 months from the starting. If profit share of C at the end of one year is Rs. 18900 out of total profit which is Rs. 50400, then find amount invested by C?
(a) Rs 18000 (b) Rs 15000 (c) Rs 17000
(d) Rs 16000 (e) Rs 14000
77. The area of a square is 1767 m^2 (approx.) and length of rectangle is one-third of side of that square. If breadth of rectangle is 4m less than length of rectangle, then find difference between area of square and area of rectangle.
(a) 1609 m^2 (b) 1627 m^2 (c) 1664 m^2
(d) 1729 m^2 (e) 1709 m^2
78. A person sold an article for Rs 802. If it is sold for Rs 38 more, then selling price would be 20% more than cost price. What is the profit percent when article is sold at actual selling price?
(a) 18.75% (b) 16.67% (c) 20%
(d) $11\frac{1}{9}\%$ (e) $14\frac{4}{7}\%$
79. A boat takes 4 hrs to cover 'D' km in upstream and takes 3 hours to cover 'D-2' km in downstream. If speed of stream is 2 kmph, then find distance covered by boat in upstream in 3 hrs.
(a) 44 km (b) 48 km (c) 42 km
(d) 56 km (e) 54 km
80. A dice is rolled twice what is the probability that the number in the second roll will be lesser than that in the first?
(a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{7}{12}$
(d) $\frac{5}{12}$ (e) $\frac{1}{6}$

Direction (81–86): Study the following data carefully and answer the following questions.

The pie chart shows the percentage distribution of total girls in five different classes in March month of 2019 and table shows the percentage of boys more or less than the girls in respective class for the same month and year.



CLASS	% of boys more/less than girls
A	50% More
B	30% More
C	25% Less
D	24% More
E	25% More

- 81.** What is the central angle for the percentage distribution of girls in class C?
 (a) 100.8° (b) 100.0° (c) 102.8°
 (d) 98.8° (e) 90.8°
- 82.** In April 2019, number of girls and boys in class C are increased by $14\frac{2}{7}\%$ and $33\frac{1}{3}\%$ respectively as compared to previous month. Total students in class C in April 2019 are what percent more or less than total students in class C in March 2019?
 (a) $25\frac{2}{7}\%$ (b) $24\frac{2}{7}\%$ (c) $28\frac{4}{7}\%$
 (d) $30\frac{2}{7}\%$ (e) $28\frac{2}{7}\%$
- 83.** What is the ratio of number of boys in class B to number of boys in class E?
 (a) 33 : 50 (b) 39 : 49 (c) 44 : 47
 (d) 37 : 40 (e) 39 : 50
- 84.** What is the average of number of boys in class A, D and E if number of boys in class B are 195?
 (a) $245\frac{2}{3}$ (b) $240\frac{2}{3}$ (c) $236\frac{2}{3}$
 (d) $241\frac{2}{3}$ (e) $246\frac{2}{3}$

- 85.** If the difference between boys and girls in class D are 216, then what is the sum of boys in class A and girls in class C?
 (a) 1656 (b) 1545 (c) 1600
 (d) 1664 (e) 1520
- 86.** Total students in class B are what percent more/less than total students in class E?
 (a) $27\frac{8}{9}\%$ (b) $27\frac{5}{9}\%$ (c) $25\frac{7}{9}\%$
 (d) $25\frac{5}{9}\%$ (e) $23\frac{1}{3}\%$

Direction (87–91): Following are the questions based on two statements and answer the following based on the given statements.

- 87.** C alone can complete the work in 15 days. In what time C and A together can complete the whole work.
Statement I. A is 25% more efficient than B and B alone can complete the work in 20 days
Statement II. Difference between the time taken by A alone and B alone to complete the work is $22\frac{1}{2}$ days and time taken by C alone to finish the work is 10% more than the time taken by A and B together to complete the work.
 (a) Statement I alone is sufficient to answer the question while statement II alone is not sufficient to answer the question
 (b) Statement II alone is sufficient to answer the question while statement I alone is not sufficient to answer the question
 (c) Both statements I and II together are required to answer the question.
 (d) Either the statement I alone or Statement II alone is sufficient to answer the question
 (e) Question cannot be answered from any of the given statements or from both the statements.
- 88.** Side of square is 'a' cm. Find the value of 'a' ?
Statement I. Square is inscribed in a circle C1. Radius of circle C1 is 21cm.
Statement II. Circle C2 is inscribed in the square. Radius of circle C2 is 28cm.
 (a) Statement I alone is sufficient to answer the question while statement II alone is not sufficient to answer the question
 (b) Statement II alone is sufficient to answer the question while statement I alone is not sufficient to answer the question
 (c) Both statements I and II together are required to answer the question.
 (d) Either the statement I alone or Statement II alone is sufficient to answer the question
 (e) Question cannot be answered from any of the given statements or from both the statements.

89. A boat covers 35 km in upstream and 35km in downstream in total 4 hours. In what time it will cover 50km upstream?

Statement I. Sum of upstream and downstream speed of the boat is 36km/h

Statement II. Speed of water current is 20% of speed of boat in still water.

- (a) Statement I alone is sufficient to answer the question while statement II alone is not sufficient to answer the question
- (b) Statement II alone is sufficient to answer the question while statement I alone is not sufficient to answer the question
- (c) Both statements I and II together are required to answer the question.
- (d) Either the statement I alone or Statement II alone is sufficient to answer the question
- (e) Question can not be answered from any of the given statements or from both the statements.

90. A train crosses a platform of twice of its length in 48seconds. Find the speed of train?

Statement I. Train crosses a man walking at a speed of 4m/s in the same direction as the direction of the train in 20 seconds

Statement II. After covering half of the platform, due to fault in the engine it covers remaining distance at a speed of which is 60% of its initial speed.

- (a) Statement I alone is sufficient to answer the question while statement II alone is not sufficient to answer the question

- (b) Statement II alone is sufficient to answer the question while statement I alone is not sufficient to answer the question
- (c) Both statements I and II together are required to answer the question.
- (d) Either the statement I alone or Statement II alone is sufficient to answer the question
- (e) Question cannot be answered from any of the given statements or from both the statements.

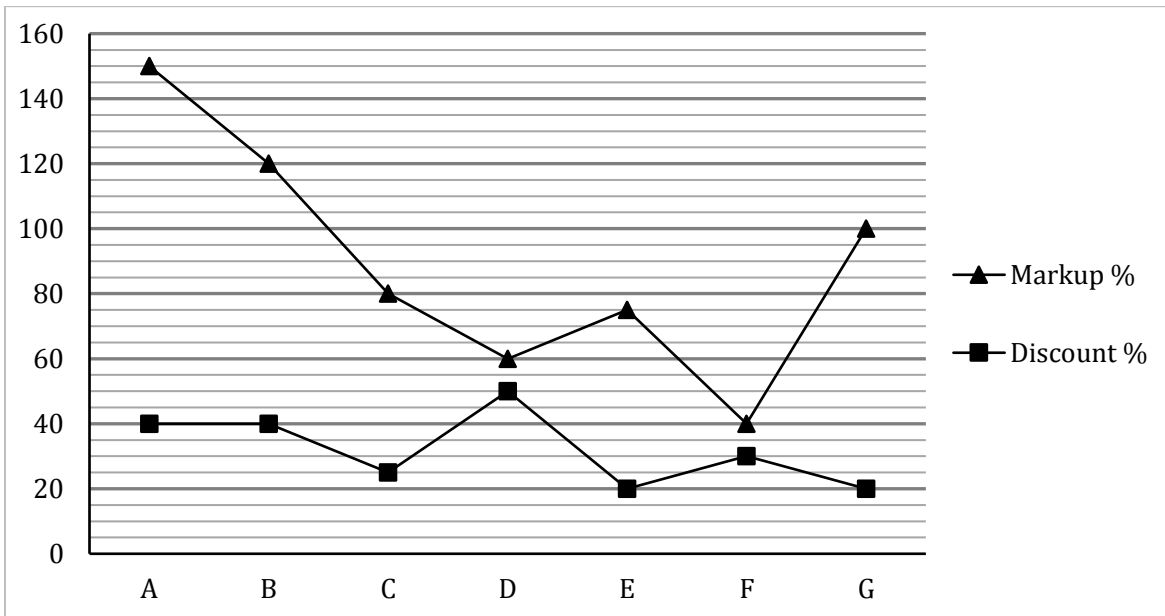
91. Let x be total number of balls in a bag. Balls are of three different colors i.e. black, white and red. Calculate $(x-1)$.

Statement I. Probability of getting a black ball is $\frac{1}{6}$, a red ball is $\frac{1}{6}$ & a white ball is $\frac{2}{3}$.

Statement II. If one white ball is lost, probability of not getting a white ball is $\frac{8}{23}$ and initial number of white balls in bag is less than 27.

- (a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the question.
- (b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question.
- (c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (d) Either statement I or statement II by itself is sufficient to answer the question.
- (e) Statements I and II taken together are not sufficient to answer the question.

Direction (92-97): Line chart given below shows markup percent more than CP and discount percent given on MRP of seven different articles sold by a shopkeeper. Study the data carefully and answer the following questions.



92. Cost price of article D is Rs.320. If article D is sold at 20% profit rather than marking up and giving discount, then find the difference between the selling price obtained in both cases. (in Rs.)
 (a) 120 (b) 128 (c) 90
 (d) 144 (e) 165
93. If difference between selling price and cost price of article G is Rs.150, then find the selling price of article G.
 (a) Rs. 300 (b) Rs. 420 (c) Rs. 350
 (d) Rs. 250 (e) Rs. 275
94. If selling price of article B is same as selling price of article E, then cost price of article B is what percent more than cost price of article E ?
 (a) $7\frac{2}{33}\%$ (b) $9\frac{2}{33}\%$ (c) $5\frac{2}{33}\%$
 (d) $4\frac{2}{33}\%$ (e) $6\frac{2}{33}\%$
95. What is the ratio of marked price to selling price of article C?
 (a) 4 : 3 (b) 3 : 4 (c) 4 : 7
 (d) 7 : 4 (e) 4 : 5
96. Total selling price of article A and article B together is what percent more than the marked price of article G ? (It is given that cost price of all articles are same)
 (a) 48% (b) 42% (c) 41%
 (d) 45% (e) 47%
97. Cost price of article 'B' is Rs.100 more than Cost price of article 'C' and marked price of article 'B' is Rs.260 more than marked price of article 'C'. Find the difference between selling price of article B and article C ?
 (a) Rs. 128 (b) Rs. 124 (c) Rs. 136
 (d) Rs. 180 (e) Rs. 156
98. Difference of speed of boat in downstream and upstream is 7km/hr and the time taken by the boat to travel 45 km in downstream is 80 minutes more than the time taken to travel 13 km in upstream. Due to cyclone, speed of current becomes twice and thus it can cover D km in upstream in time which is equal to new speed of current. Find D? (Note: speed of boat in still water is multiple of 5)
 (a) 30 (b) 24 (c) 18
 (d) 21 (e) 27
99. Ravi and Sneha got married 10 years ago and at that time ratio of their ages was 5:4. Ratio of present age of Ravi and Sneha is 7:6. After marriage they had seven children including a triplet and a twin. The ratio of present age of triplet, twin, sixth and the seventh child is 4:3:2:1. Find the largest possible value of the present total age of the family.
 (a) 121 (b) 107 (c) 101
 (d) 93 (e) None of the above
100. Shivam invested Rs 3 lac in a scheme which is providing interest rate of 'r'% per annum at CI and this scheme doubles the sum invested in $\frac{72}{r}$ years which is two times of rate of interest provided by the scheme. Find the total amount received by Shivam at the end of 48 years (in lac)?
 (a) 45 (b) 50 (c) 64
 (d) 32 (e) 48

Directions (101-106): Read the following passage and answer the following questions. Some words are highlighted to help you answer some of the questions.

AI has several positive applications but the capability of AI systems to learn from experience and to perform autonomously for humans makes AI the most disruptive and self-transformative technology of the 21st century. If AI is not regulated properly, it is bound to have unmanageable implications. Imagine, for instance, the electricity supply suddenly stops while a robot is performing a surgery, and access to a doctor is lost? And what if a drone hits a human being? These questions have already confronted courts in the U.S. and Germany. All countries, including India, need to be legally prepared to face such kind of disruptive technology.

Predicting and analysing legal issues and their solutions, however, is not that simple. For instance, criminal law is going to face drastic challenges. What if an AI-based driverless car gets into an accident that causes harm to humans or damages property? Who should the courts hold liable for the same? In the U.S., there is a lot of discussion about regulation of AI. Germany is working on blemish present in it, like certain ethical rules for autonomous vehicles stipulating that human life should always have priority over property or animal life. China, Japan and Korea are following Germany in developing a law on self-driven cars. In India, NITI Aayog released a policy paper, 'National Strategy for Artificial Intelligence', in June 2018, which considered the importance of AI in different sectors. The Budget 2019 also proposed to launch a national programme on AI. While all these developments are taking place on the technological front, no comprehensive legislation to regulate this growing industry has been formulated in the country till date.

Apart from these aspects, strategists have also offered sober explorations of the future relationship between AI and nuclear weapons. Some of the most widely received **musings** on the issue, including a recent call for an AI-enabled "dead hand" to update America's aging nuclear command, control, and communications infrastructure, tend to obscure more than they _____ due to an insufficient understanding of the technologies involved. An appreciation for technical detail, however, is necessary to arrive at realistic assessments of any new technology, and particularly consequential where nuclear weapons are concerned. Some have warned that advances in AI could erode the fundamental logic of nuclear deterrence by enabling counter-force attacks against heretofore concealed and mobile nuclear forces. Such secure second-strike forces are considered the backbone of effective nuclear deterrence by assuring retaliation. Were they to

become vulnerable to pre-emption, nuclear weapons would lose their deterrent value.

The exponential growth of sensors and data sources across all warfighting domains has analysts today facing an overabundance of information. Some strategists warn that the same AI-infused capabilities that allow for more prompt and precise strikes against time-critical conventional targets could also undermine deterrence stability and increase the risk of nuclear use. Specifically, AI-driven improvements to intelligence, surveillance, and reconnaissance would threaten the survivability of heretofore secure second-strike nuclear forces by providing technologically advanced nations with the ability to find, identify, track, and destroy their adversaries' mobile and concealed launch platforms. Transporter-erector launchers and ballistic missile submarines, traditionally used by nuclear powers to enhance the survivability of their deterrent forces, would be at greater risk. A country that acquired such an exquisite counter-force capability could not only hope to limit damage in case of a spiraling nuclear crisis but also negate its adversaries' nuclear deterrence "in one swift blow." Such an ability would undermine the nuclear deterrence calculus whereby the costs of imminent nuclear retaliation far outweigh any conceivable gains from aggression.

101. In accordance with the passage which of the following statement(s) negates the advancement of the AI technology?

- (a) AI would diminish the whole idea of having a nuclear deterrence in the first place
- (b) Absence of international monitoring authority for AI would lead to unbridled use
- (c) Non-existence of jurisdictional responsibility of use of AI
- (d) Both (a) and (c)
- (e) None of these

102. Which of the following argument(s) can be rectified after reading the given passage?

- (a) Machine intelligence is much different from human intelligence
- (b) AI-improved counter-force capability would be considered as good enough to order a strike
- (c) Use of AI in National security will make the conventional warfare strategies obsolete.
- (d) AI is considered to be inanimate that holds the producer of the product liable for harm
- (e) None of these.

103. Which of the following is similar to '**MUSINGS**' as used in the passage?

- (a) contemplation (b) decimate (c) nurture
- (d) tickle (e) None of these.

104. 'No comprehensive legislation to regulate this growing industry has been formulated in the country till date' Why?

- (a) dearth of technical whereabouts of the AI based mechanism in the concerned authorities
- (b) dual use of AI i.e. both military and non-military.
- (c) owing to political benefits of mass surveillance
- (d) Both (b) and (c)
- (e) None of these.

105. Select appropriate filler for the blank given in the passage.

- (a) discard (b) flout (c) embellish
- (d) illuminate (e) None of these.

106. Which of the following suggestions regarding improvement of the AI have been suggested in the passage?

- (a) Agreeing with the legal as well psychological aspects in different situations
- (b) Ability to prioritize in life threatening situations
- (c) prone to various manipulation that can alter decision making ability
- (d) safeguard from hacking various malicious groups and organization
- (e) None of these.

Directions (107-111): In the following questions a sentence is provided which is divided in different parts. One of these parts is highlighted and is free from grammatical error. Remaining parts may or may not be grammatically or contextually correct. Choose the letter corresponding to the correct part as your answer.

107. Noting Kathak exponent Manjari Chaturvedi (A)/is in for a shock when her (B)/qawwali performance was stopped midway/ by officials of the Uttar Pradesh government during (C)/a official cultural programme at a Lucknow (D)

- (a) D (b) A (c) B
- (d) C (e) No Error

108. In a fortnight, about 30 peoples will (A)/join the National Cyber Forensic Lab to (B)/assist security agencies in preventing,/ containing and investigate complex (C)/cybercrimes along the country(D)

- (a) D (b) A (c) B
- (d) C (e) No Error

109. The fourth edition of 'The Death Penalty in India: Annual Statistics' (A)/published by Project 39A of NLU-Delhi said (B)/the number of death sentences awarded/ for murders involving sexual offences(C)/ in 2019 was at the highest in four years(D)

- (a) D (b) A (c) B
- (d) C (e) No Error

110. The NGT have warned that local (A)/ bodies will be liable to pay/ a compensation of Rs. 1 millions per

month (B)/for a population of above 1 million if there was (C)/continued failure to treated generated waste. (D)

- (a) D (b) A (c) B
- (d) C (e) No Error

111. Under the NDPS Act, if there was prior(A)/ information about the recovery of narcotic drugs(B)/ or psychotropic substances to any person(C)/ the power of arrest such a person(D)/ is not vested with the police officer.

- (a) D (b) A (c) B
- (d) C (e) No Error

Directions (112-117): Read the following passage and answer the following questions. Some words are highlighted to help you answer some of the questions.

The sweetest victory is the one that's most difficult. The one that requires you to reach down deep inside, to fight with everything you've got, to be willing to leave everything out there on the battlefield—without knowing, until that do-or-die moment, if your heroic effort will be enough. Society doesn't reward defeat, and you won't find many failures documented in history books. The exceptions are those failures that become steppingstones to later success. Such is the case with Thomas Edison, whose most memorable invention was the light bulb, which purportedly took him 1,000 tries before he developed a successful prototype. "How did it feel to fail 1,000 times?" a reporter asked. "I didn't fail 1,000 times," Edison responded. "The light bulb was an invention with 1,000 steps."

Unlike Edison, many of us avoid the prospect of failure. In fact, we're so focused on not failing that we don't aim for success, settling instead for a life of _____. When we do make missteps, we gloss over them, selectively editing out the miscalculations or mistakes in our life's résumé. "Failure is not an option," NASA flight controller Jerry C. Bostick reportedly stated during the mission to bring the damaged Apollo 13 back to Earth, and that phrase has been etched into the collective memory ever since. To many in our success-driven society, failure isn't just considered a non-option—it's deemed a deficiency, says Kathryn Schulz, author of *Being Wrong: Adventures in the Margin of Error*. "Of all the things we are wrong about, this idea of error might well top the list," Schulz says. "It is our meta-mistake: We are wrong about what it means to be wrong. Far from being a sign of intellectual inferiority, the capacity to err is crucial to human cognition."

When we take a closer look at the great thinkers throughout history, a willingness to take on failure isn't a new or extraordinary thought at all. From the likes of Augustine, Darwin and Freud to the business mavericks and sports legends of today, failure is as powerful a tool as

any in reaching great success. "Failure and defeat are life's greatest teachers [but] sadly, most people, and particularly conservative corporate cultures, don't want to go there," says Ralph Heath, managing partner of Synergy Leadership Group and author of *Celebrating Failure: The Power of Taking Risks, Making Mistakes and Thinking Big*. However, in today's post-recession economy, some employers are no longer shying away from failure—they're embracing it. According to a recent article in *BusinessWeek*, many companies are deliberately seeking out those with track records reflecting both failure and success, believing that those who have been in the trenches, survived battle and come out on the other side have irreplaceable experience and perseverance.

When the rewards of success are great, embracing possible failure is key to taking on a variety of challenges, whether you're reinventing yourself by starting a new business or allowing yourself to trust another person to build a deeper relationship. "To achieve any worthy goal, you must take risks," says writer and speaker John C. Maxwell. "One of the biggest secrets to success is operating inside your strength zone but outside of your comfort zone," Heath says. Although you might fail incredibly, you might succeed incredibly—and that's why incredible risk and courage are requisite. Either way, you'll learn more than ever about your strengths, talents and resolve, and you'll strengthen your will for the next challenge. If this sounds like dangerous territory, it can be. But there are ways to ease into this fearless mindset.

- 112.** As per the passage, what is common in all of the struggles which are later documented in the books?
- (i) Efforts made throughout the struggles
(ii) Never give up attitude
(iii) Success at the end of their journey
- (a) Only (i)
(b) Only (iii)
(c) Both (ii) and (iii)
(d) Both (iii) and (i)
(e) All of these.
- 113.** Which of the following statement(s) is/are not true in context of the given passage?
- (a) High rewarding challenges require similar adaptability to varied failure possibility.
(b) As per Heath, risk taking ability is must to achieve any worthy goal
(c) Both (a) and (d)
(d) Human generally learn from the mistakes they make and the experience from those mistakes
(e) None of these.
- 114.** Which of the following best describe the attitude of Thomas Edison as can be inferred from the second paragraph of the given passage?
- (a) distressed (b) sedulous (c) tense
(d) indifferent (e) None of these.

- 115.** Which of the following statement(s) can be inferred from the given passage?
- (a) History is filled with the stories of eminent person and their failures.
(b) Positive attitude is the key to tackle a problematic situation
(c) Recession have made the people to take failure positively
(d) Mangers have to stick their necks out a mile every day to get the job done
(e) None of these.

- 116.** Select appropriate filler for the blank given in the passage.
- (a) supremacy (b) abundant (c) mediocrity
(d) distinction (e) None of these.

- 117.** Which of the following is opposite in meaning to 'GLOSS' as used in the passage?
- (a) unveil (b) facade (c) shimmer
(d) conceal (e) None of these.

Directions (118-120): In the following questions, a paragraph is given which is provided with some blanks. These blanks have to be filled by one word from the options provided below. Choose the option which fills all the blanks without inducing any grammatical or contextual error.

- 118.** We are witnessing unprecedented _____ in India. Such _____ are the hallmark of a free, democratic society, whose logic demands that the voice of the people be heard by those in power and decisions be reached after proper discussion and consultation.
- (a) fastenings (b) protests (c) growth
(d) debate (e) None of these.
- 119.** There could be more bad news on the _____ front which saw a five-year high of 7.35% in December. The report from SBI said core _____ could rise further on the back of telecom price increase and a larger increase could push headline _____ closer to 8%.
- (a) diplomatic (b) economic (c) democratic
(d) inflation (e) None of these.

- 120.** A bag containing a/an _____, placed near a ticket counter at the Mangaluru International Airport, triggered alarm on Monday morning. The bag was later removed and the _____ defused through controlled explosion in an open area one kilometre away.
- (a) ornament (b) confliction (c) explosive
(d) cash (e) None of these.

Directions (121-125): Read the following passage and answer the following questions. Some words are highlighted to help you answer some of the questions.

Coffee first arrived in Europe from the Muslim world during the 17th century. It was amazing and it amazed, with an exoticness that charmed Europeans, its stimulating

effect and the fact that it made a welcome change from traditional alcoholic beverages. Establishments serving coffee began to open, providing an environment for wonderful social, cultural and political exchange and, within a century, coffee had become part of everyday life.

It is not known exactly when coffee as a drink was discovered. However, we do know that the coffee plant originated in Ethiopia, where coffee beans were consumed either as a paste or as a drink, for their medicinal properties. The shrub was introduced to Yemen around the 14th century and it was then that the first coffee plantations were created. Muslim mystics and pilgrims appreciated coffee for its energising powers, so it travelled to Mecca. From that moment onwards, its success became unstoppable, bowling over Cairo, the Middle East and Constantinople, before arriving in Europe in the early 17th century. As expected, this new drink would come up against a few opponents. Religious clerics were suspicious and asked Pope Clement VIII to taste it. He allegedly declared that it would be a sin if only unbelievers were allowed to enjoy such a delicious drink. Like the pope, the privileged classes were charmed by coffee and quickly **embraced** its exoticism; 'turqueries' were particularly fashionable at that time. Intellectuals appreciated it for its ability to help one stay alert and to think clearly. Unlike chocolate, which remained a luxury for the privileged for a long time, coffee, which was less-expensive, was adopted by all levels of society and welcomed into homes during the 19th century. A morning cup of coffee gradually replaced traditional broths or soups and became established as a great classic.

The arrival of coffee was accompanied by a new trend as establishments serving coffee, just like the ones that existed in Constantinople and in Cairo, began to open all over Europe. They soon became meeting places, where people from a variety of backgrounds could get together, discuss and exchange ideas, without becoming intoxicated. In Paris, for example, Le Procope became a meeting place for artists and intellectuals - Montesquieu and Diderot were regular customers. The freedom of speech and the spirit of revolt which sometimes reigned in these establishments did not go unnoticed by the authorities. In London, cafés came to be considered dangerous and, in 1676, Charles II ordered their closure. However, as a result of public pressure, they reopened just a few days later.

What we call the coffee bean is actually more like a seed or pit it grows inside a thin-fleshed fruit not unlike a cherry, which ripens about nine months after the coffee plant flowers. In order to prepare the beans for roasting, they must first be removed from this outer casing using one of several techniques—a "washed," a "pulp natural," or a "natural" method—which may vary based on factors like regional climate, tradition, and the coffee's intended flavor profile. This can be a very tricky part of the life cycle of a coffee bean, as even the highest-quality crop can quickly be

_____ by mold, over-drying, inattentiveness, bad weather, or pest infestation.

121. Which of the following statement(s) is/are false in context of the given passage?
- Coffee leads to the rise of establishments which sometimes served as the origin of revolt.
 - Coffee was first discovered in Ethiopia in middle eastern region of world.
 - Both (b) and (d)
 - Popularity of coffee around the world started from Europe.
 - None of these.
122. Which of the following is similar in meaning to the word '**EMBRACED**' as used in the passage?
- repudiate
 - espouse
 - obviate
 - renounce
 - None of these.
123. Which of the following merits of the coffee have been mentioned in the passage?
- Energizing affects
 - Increased alertness
 - improved ability to think clearly
- Only (i)
 - Only (ii)
 - Only (iii)
 - Both (ii) and (iii)
 - All of the above
124. Select appropriate filler for the blank given in the passage.
- augmented
 - ruined
 - exhausted
 - replenished
 - None of these.
125. Which of the following statement(s) is/are in accordance with the passage?
- Use of coffee faced severed criticism from religious clerics
 - widespread use of coffee helped chocolate in gaining popularity
 - coffee fruit is grinded and roasted to obtain the coffee powder which is widely used
 - Both (a) and (b)
 - None of these.

Directions (126-130): In the following questions five sentences which are in their jumbled form are given. Further these sentences have a highlighted part which may or may not form a contextually meaningful sentence. You have to swap the highlighted part with the other to make a contextually meaningful sentence and then rearrange those sentences to make a contextually meaningful paragraph. Later, answer the follow up questions.

- Here, the example of Brazil, the only country where more than 100 million **most ambitious government health programme(i)**.
- Achieving universal health coverage is a very complex task, **one interesting field of cooperation to**

explore in the strategic partnership is healthcare(ii).

- (C) It can also provide lessons for Ayushman Bharat, currently the world's largest and **inhabitants have a universal health system, is worth studying(iii).**
- (D) As Brazilian President Jair Bolsonaro visits New Delhi this Republic Day, **especially for developing countries(iv).**
- (E) Which in turn will Help in achieving universal coverage in India, a country with a population of 1.3 billion, **is a challenge of epic proportions(v).**

126. Which of the following will be the second sentence after the rearrangement?

- (a) C (b) A (c) E
(d) B (e) D

127. Which of the following highlighted phrase should the phrase '**especially for developing countries**' interchanged with to make a contextually meaningful sentence?

- (a) most ambitious government health programme
(b) one interesting field of cooperation to explore in the strategic partnership is healthcare
(c) inhabitants have a universal health system, is worth studying
(d) is a challenge of epic proportions
(e) No interchange required.

128. Select the correct pair of replacement from the options given below.

- (a) i-ii (b) iii-iv (c) ii-iii
(d) i-iii (e) None of these.

129. Which of the following will be the fifth sentence after the rearrangement?

- (a) C (b) A (c) E
(d) B (e) D

130. Which of the following will be the fourth sentence after the rearrangement?

- (a) C (b) A (c) E
(d) B (e) D

Directions (131-138): In the following passage there are highlighted words, each of which has been numbered. These numbers are printed below the passage and against each, five options are given. In four options, one word is suggested in each option. Find out the appropriate word which can replace the highlighted word. If the highlighted word fits the passage, choose option 'e' (No correction required) as the correct choice.

The Supreme Court allowed the government's **abrogation (131)** to take over the management of the **thriving (132)** real estate major Unitech Ltd. and appointed a new board of directors to steer the completion of pending projects and

provide homes for over 12,000 investors in dire straits. A Bench of Justices D.Y. Chandrachud and M.R. Shah appointed former IAS officer Yudvir Singh Malik as the chairman and managing director of the new board while refusing to give a/an **vacant (133)** on the board to Unitech Group founder Ramesh Chandra at this stage.

"The idea of a professional board is to allow them to take control of the company and complete the pending projects in the interest of homebuyers," the court said. The board includes A.K. Mittal, ex-CMD of National Buildings Construction Corporation; Renu Sud Karnad, chairman of HDFC Credila Finance Service Pvt Ltd.; Jitu Virwani, CMD of Embassy Group; and Niranjana Hiranandani, managing director of Mumbai-based Hiranandani Group.

The court **subjugated (134)** the institution of any fresh cases against Unitech for two months. Old orders and enforcement of them also stand suspended for the period. Unitech promoters Sanjay Chandra and his brother Ajay Chandra are currently **granted (135)** in Tihar jail for allegedly **laying (136)** off homebuyers' money. The court said the probe into irregularities in the company would continue and said the work of a panel led by former Delhi High Court judge, Justice S.N. Dhingra, appointed to sell the company's assets and use the money in completion of pending projects, would continue to work till the new board comes up with a **resolution (137)** framework.

The court indicated that it would appoint a retired Supreme Court judge to monitor the preparation of resolution framework. The top court directed the present management of the company, forensic auditors, asset reconstruction companies, banks and financial institutions and state governments to **intend (138)** cooperation to the new board.

- 131.** (a) inception (b) character (c) adoption
(d) proposal (e) No correction required

- 132.** (a) juvenile (b) embattled (c) sprouting
(d) endangered (e) No correction required

- 133.** (a) rite (b) abash (c) berth
(d) ramification (e) No correction required

- 134.** (a) barred (b) adjourned (c) incurred
(d) discord (e) No correction required

- 135.** (a) entitled (b) coveted (c) lodged
(d) melee (e) No correction required

- 136.** (a) taken (b) called (c) pay
(d) siphoning (e) No correction required

- 137.** (a) journal (b) intrinsic (c) luscious

(d) novice (e) No correction required

138. (a) disseminate (b) extend (c) squander
(d) plummet (e) No correction required

Direction (139-140): Select the phrase/ connector (STARTERS) from the given three options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.

139. China will step up efforts to contain the coronavirus outbreak ahead of the Lunar New Year holidays. 17 new cases of the virus have been confirmed and there is increasing possibility of spread of virus to other countries.

- (i) In lieu of 17 new cases...
- (ii) Owing to the 17 new cases....
- (iii) Taking into consideration China's efforts to....

- (a) Only (i)
- (b) Only (ii)
- (c) Only (iii)
- (d) Both (i) and (ii)
- (e) None of the above

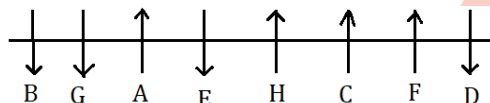
140. Doubts were raised about the efficacy of the Right To Information Act in Haryana. Only 35% penalty has been recovered since the setting up of the Haryana State Information Commission in 2006.

- (i) Citing the modus operandi of RTI.....
- (ii) Stating the facts regarding cases under RTI....
- (iii) In what raises doubts about the efficacy.....
- (a) Only (i)
- (b) Only (ii)
- (c) Only (iii)
- (d) Both (iii) and (i)
- (e) None of the above

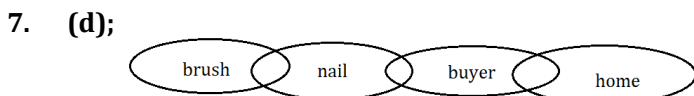
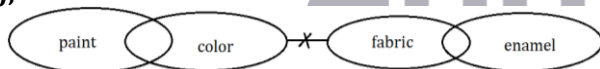
Solutions

REASONING ABILITY

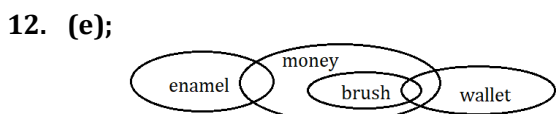
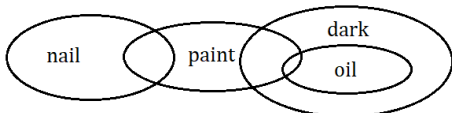
Solutions (1-5):



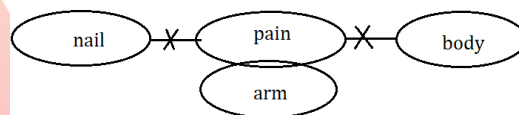
- 1. (b); 2. (c); 3. (d);
- 4. (a); 5. (b);
- 6. (e);



- 8. (b); Condition I and II is applied.
- 9. (a); No Condition is applied.
- 10. (c); Condition III and IV is applied.
- 11. (b);



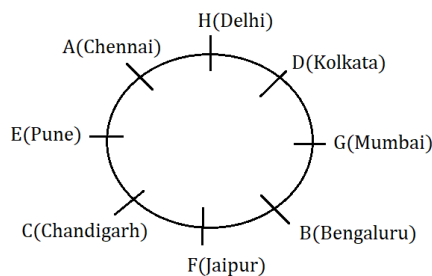
13. (c);



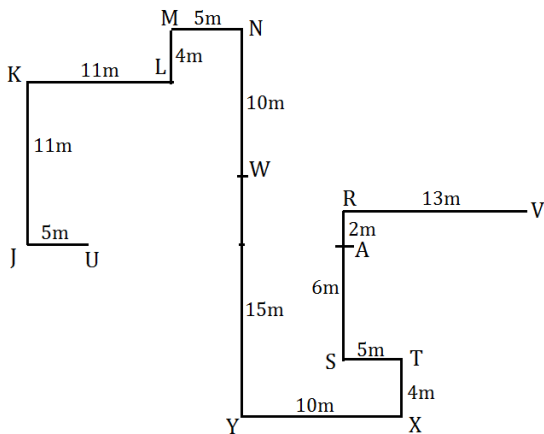
14. (d);

Days	Persons
Monday	F
Tuesday	A
Wednesday	E
Thursday	C
Friday	D
Saturday	B

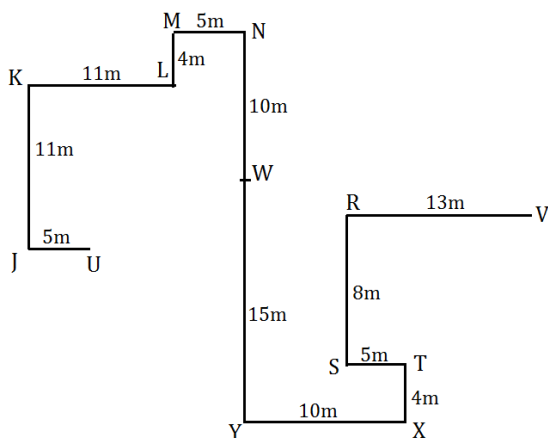
Solutions (15-19):



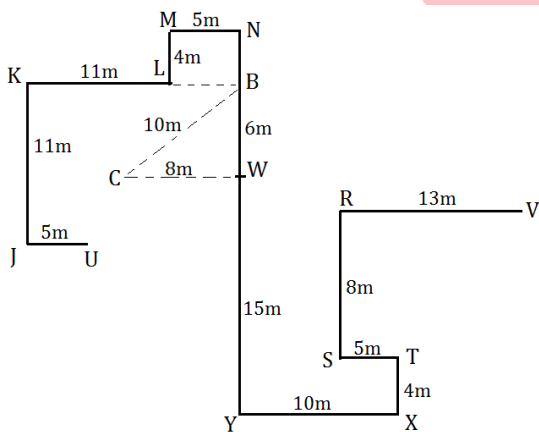
- 15. (b); 16. (a); 17. (c);
- 18. (b); 19. (e);
- 20. (e); All weights are in whole number so
Ram > Rajesh > Geeta > Rohan > Rakesh > Sohan
66kg 65kg 64kg 63kg 62kg
- 21. (b);



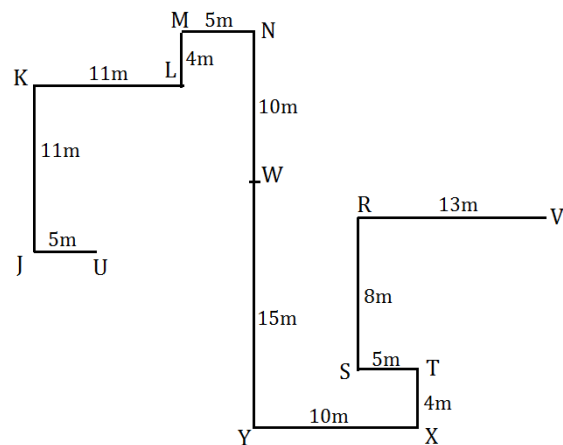
22. (d);



23. (b);



24. (c);



Solution (25-29):

W
Q
S
U
R
P
X
V
Y
Z
T

25. (c); 26. (d); 27. (e);

28. (a); 29. (b);

Solution (30-32): Meaningful word is DISCOUNT

30. (d); 31. (b); 32. (e);

Solution (33-37): O was born just before K who is youngest. M is not less than 37 year. Ages are measured from 1st January 2020. Every person was born on 1st of every month. So, M was born on January 1983 and he is oldest person. There are 17 months difference between the age of M and J. So, J was born on June 1984. Here, we get two possibilities i.e. Case 1 and Case 2. There are as many persons were born before Q as after L. P and L were born in same year. J is younger than N. N was born on October.

	Case 1		Case 2	
Years	Months	Persons	Months	Persons
1983	January	M	January	M
	October	N	October	N
1984	June	J		Q
		Q	June	J
1985		L		P
		P		L
1986		O		O
		K		K

P was born before April. So, P was either born on February or on March. O and K were born in the month which have 31 days. There are 13 months difference between the ages of P and O. Now P and O were born on February and March respectively. Q and L were born in the month of 30 days. L was born before P in same year and here P was born on February, so Case 1 is ruled out. There are 11 months gap between the births of L and K. Now, L and K was born on September and August respectively.

So, the final arrangement will be: -

Years	Months	Persons
1983	January	M
	October	N
1984	April	Q
	June	J
1985	February	P
	September	L
1986	March	O
	August	K

33. (c); 34. (e); 35. (b);

36. (c); 37. (d);

Solution (38-42): Logic- Each word has code which consists only two symbols.

1st symbol is the code of the number which is the difference between the place values of 1st and last letter in each word. 2nd symbol is the code of the number which is the difference between the place values of 2nd letter from right and 2nd letter from left.

Code of difference of place values is as follows:

difference	1	2	3	4	5	6	7	8	9	10
code	©	□	£	¥	β	α	Ω	μ	®	€

difference	11	12	13	14	15	16	17	18	19
code	@	∅	\$	%	&	*	Ⓟ	∞	#

38. (c); 39. (b); 40. (d);

41. (b); 42. (c);

43. (d); I. L@N(false) II. K#R(true)
III. V%R(false)

44. (b); I. G&M(false) II. K@O(true)
III. M@G(false)

45. (a); I. M@N(true) II. J#V(false)
III. L%N(false)

46. (a); I. D#A (true) II. F@D(true)
III. H%E(false)

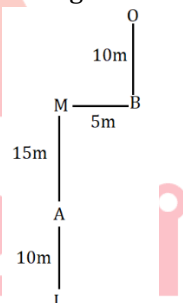
47. (c); I. G%J (false) II. F@H(false)
III. I@M(true)

48. (a); From I we get following arrangement:

Floor	Persons
5	X
4	A
3	
2	Y
1	

Hence X lives on 5th floor.

49. (c); From I and II both we get following arrangement:



Thus, L is in south-west of O.

50. (b); Even after combining I and II we can't conclude anything.

QUANTITATIVE APTITUDE

Solutions (51-56): College A: let no. of students in ME = 2x

Students in EE = 2x + 40

Students in CE = 3x

College B: students in EE = 2x + 20

Students in CE = 340 = 40 + 3x

Students in ME = $\frac{9}{11}(2x + 20)$

College C: students in ME = 1.2x

Students in CE = 1.2x - 40

Students in EE = 780 - (2x+40+2x+20) = 720 - 4x

On solving, x = 100

College \ Course	ME	CE	EE	Total
A	200	300	240	740
B	180	340	220	740
C	120	80	320	520

51. (e); students in C = 520

52. (a); students who shifted to CE in college C from ME in college A = 20
Students in CE in college C now = 80+20 = 100

Average of students in ME of all colleges
 $= \frac{180 + 180 + 120}{3} = 160$

Required difference = $160 - 100 = 60$

53. (c); required % = $\frac{220-120}{120} \times 100 = 83\frac{1}{3}\%$

54. (b); required ratio = $(200 + 300) : (340 + 220)$
 $= 500 : 560 = 25 : 28$

55. (d); required difference = $\frac{240+220+320}{3} \sim \frac{300+340+80}{3}$
 $= 20$

56. (b); required % = $\frac{520}{740} \times 100 = 70\%$ (approx.)

57. (d); Let MP be Rs 100x

SP = Rs 90x

CP = $\frac{100}{112.5} \times 90x = \text{Rs } 80x$

New SP = Rs 75x

Required loss % = $\frac{5x}{80x} \times 100 = 6.25\%$

58. (c); ATQ, $\frac{1}{16} + \frac{1}{X} - \frac{1}{12} = \frac{7}{240}$

On solving, $\frac{1}{X} = \frac{1}{20}$

X = 20 min

59. (b); milk remained after 20 lit mixture is taken out
 $= (96 - 20) \times \frac{65}{100} = 49.4 \text{ lit}$

Water remained after 20 lit mixture is taken out

$= (96 - 20) \times \frac{35}{100} = 26.6 \text{ lit}$

Required difference = $(49.4 + 10) - (26.6 + 16)$
 $= 16.8 \text{ litre}$

60. (c); Speed of train A = $\frac{4 \times 180}{36} = 20 \text{ m/s} = 72 \text{ kmph}$

Length of train B = $63 \times \frac{5}{18} \times 8 = 140 \text{ m}$

Required time = $\frac{180+140}{(72-63) \times \frac{5}{18}} = 128 \text{ sec}$

61. (b); Total student in 2019 = 360

Let no. of boys & girls be x & y respectively

$x + y = 360$ (i)

Students who didn't participate in 2019

$= \frac{40}{100} \times 360 = 144$

no. of boys who didn't participate in 2019

$= 144 - 12 = 132$

required difference = $\frac{132}{55} \times 45 - \frac{15}{100} \times 360 = 54$

62. (a); no. of girls who didn't participate in 2018 = 30

No. of boys who participated in 2018

$= 300 - \frac{30}{20} \times 100 = 150$

Required ratio = $45 : 150 = 3 : 10$

63. (d); no. of students in 2015 = $780 - (360+180) = 240$

Students who didn't participate in 2015 = 72

no. of boys who didn't participate in 2015 = 49

Total number of girls in 2015 = $240 - \frac{49}{35} \times 100$

= 100

Required difference = $140 \times \frac{65}{100} - (100 - 23)$
 $= 91 - 77 = 14$

64. (e); required average

$= \frac{1}{3} \left(360 \times \frac{15}{100} + 180 \times \frac{25}{100} + 300 \times \frac{10}{100} \right)$
 $= (54 + 45 + 30)/3 = 43$

65. (c); Total no. of boys in 2018 = 180

Total No. of girls in 2018 = 120

No. of students who didn't participate in 2018 = 30

No. of boys who didn't participate in 2018 = $30 - 24 = 6$

Required % = $\frac{6}{120-24} \times 100 = 6\frac{1}{4}\%$

66. (a); no. of boys who didn't participate in 2019 = 110

No. of girls who didn't participate in 2019

$= 5 + \frac{25}{100} \times 180 = 50$

Total students in 2019 = $\frac{160}{40} \times 100 = 400$

No. of girls who participated in 2019 = $200 - 50 = 150$

Required ratio = $150 : \left(\frac{90}{100} \times 300 \right) = 5 : 9$

Solutions (67-68): Ratio of Profit share (A : B : C)

$= (6000 \times X) : (12000 \times 12) : (7000 \times X) = 6X : 144 : 7X$

ATQ, $6X : 144 : 7X = 18 : 48 : Z$

$\frac{6X}{144} = \frac{18}{48}$

X = 9 months

Also, $\frac{144}{7X} = \frac{48}{Z} \Rightarrow Z = 21$

67. (c); X = 9 months

68. (d); Z = 21

69. (e); Let present age of father & mother be 12x years & 11x years respectively

ATQ, $\frac{12x + 12}{11x + 12} = \frac{15}{14} \Rightarrow x = 4$

present age of son = $12x - 22 = 26 \text{ yrs}$

present age of daughter = $11x - 20 = 24 \text{ yrs}$

required sum = 50 yrs

70. (b); let sum be Rs P

ATQ, $P \left(\frac{20}{100} \right)^2 = 420$

P = Rs 10500

Required simple interest = $\frac{10500 \times 25 \times 3}{100} = \text{Rs } 7875$

71. (d); $40 \div 5 + ? \approx 73 - 19$

? = 46

72. (a); $10 \times 16 - 55 \div 11 \approx ? + 55$

? = 100

73. (c); $63 + 68 - 43 + ? \approx 90$

? = 2

74. (e); $80 + 23 \approx 13 \times 7 + ?$

? = 12

75. (b); $520 \div 13 - 4 \times 10 + 34 \approx ?$
 ? = 34
76. (a); let amount invested by C be Rs X
 Profit share ratio = A : B : C
 = $6000 \times 12 : 12000 \times 9 : X \times 6$
 = $12000 : 18000 : X$
 ATQ, $\frac{X}{30000+X} \times 50400 = 18900$
 $x = \text{Rs } 18000$
77. (b); side of square = 42 m (area of square $\approx 1764 \text{ m}^2$)
 length of rectangle = 14 m
 breadth of rectangle = 10 m
 Required difference = $1767 - 140 = 1627 \text{ m}^2$
78. (e); let CP be Rs x
 ATQ, $\frac{120}{100} \times x = 802 + 38$
 $x = \text{Rs } 700$
 required profit % = $\frac{802-700}{700} \times 100 = 14\frac{4}{7}\%$
79. (c); Let speed of boat in still water be s kmph
 ATQ, $\frac{D}{4} = s - 2$
 $D = 4s - 8$ (i)
 Also, $\frac{D-2}{3} = s + 2$
 $D = 3s + 8$ (ii)
 From (i) & (ii);
 $S = 16 \text{ kmph}$
 Required distance = $3(16 - 2) = 42 \text{ km}$
80. (d); When dice is rolled two times
 Total number of possibilities = 36 (i.e. 6^2)
 Desired possibilities = ${}^6C_2 \times 1$
 (i.e. two number are selected for two rolls)
 1 No. of way to arrange number in descending orders.
 \therefore Required probability = $\frac{{}^6C_2}{36} = \frac{5}{12}$
81. (a); Required central angle $\rightarrow \frac{360}{100} \times 28 = 100.8^\circ$
82. (c); Let total girls in class C in March 2019 be $28x$
 Number of girls class C in April 2019
 = $(1 + \frac{1}{7}) \times 28x = 35x$
 Number of boys in class C in March 2019
 = $\frac{(100-25)}{100} \times 28x = 21x$
 Number of boys in class C in April 2019
 = $(1 + \frac{1}{3}) \times 21x = 28x$
 Required percentage = $\frac{35x+28x-28x-21x}{28x+21x} \times 100$
 = $\frac{14}{49} \times 100 = 28\frac{4}{7}\%$
83. (e); Let number of girls in class B be $15x$ and number of girls in class E be $20x$

Number of boys in class B = $\frac{(100+30)}{100} \times 15x = \frac{39x}{2}$
 Number of boys in class E = $\frac{(100+25)}{100} \times 20x = 25x$
 Required ratio = $\frac{39}{2 \times 25} = 39:50$

84. (e); Let number of girls in class A, B, D and E be $12x$, $15x$, $25x$ and $20x$ respectively.
 ATQ, $\frac{(100+30)}{100} \times 15x = 195$
 $15x = \frac{1950}{13} \Rightarrow x = 10$
 Number of boys in class A = $\frac{(100+50)}{100} \times 12x = 18x$
 Number of boys in class D = $\frac{(100+24)}{100} \times 25x = 31x$
 Number of boys in class E = $\frac{(100+25)}{100} \times 20x = 25x$
 Required average
 = $(18 + 31 + 25) \times \frac{10}{3} = 246\frac{2}{3}$
85. (a); Let girls in class D be $25x$ then boys in D will be $31x$
 So, $6x = 216 \Rightarrow x = 36$
 Boys in class A = $12x \times \frac{150}{100} = 18x$
 Girls in class C = $28x$
 Required sum = $18x + 28x = 46 \times 36 = 1656$
86. (e); Let total girls in class B and class E be $15x$ and $20x$ respectively
 Total boys in class B = $19.5x$
 Total boys in class E = $25x$
 Required percentage = $\frac{45x-34.5x}{45x} \times 100 = 23\frac{1}{3}\%$
87. (d); **From I -**
 Ratio of efficiency of A to B is $5 : 4$
 So,
 Ratio of time taken by A : B is $4 : 5$
 From I we can calculate the time taken by A alone to complete the work
 Hence statement I alone is sufficient to answer the question
From II -
 From II we can say that either A takes more time than B or vice versa.
 Let A takes $(x + \frac{45}{2})$ days and B takes x days. So, time taken by A and B together to complete the work will be = $15 \times \frac{10}{11}$ days
 ATQ, $\frac{2}{2x+45} + \frac{1}{x} = \frac{11}{150}$
 from here x can be calculated and we can find the value of time taken by A alone to complete the work.
 We can find the answer from either statement I alone or statement II alone.
88. (d); **From I -**
 Radius of circle C1 is half the diagonal of square. So, we can find side of square from statement I alone.

From II – Diameter of circle C2 is equal to side of square. So, we can find side of square from statement II alone.

Hence, Either statement I alone or statement II alone is sufficient to answer the question.

89. (d); It is given that $\frac{35}{x-y} + \frac{35}{x+y} = 4$

From I – We get the value of x from first statement so on putting the value of x in the above equation we obtain value of y.

So, we can find the value of required time from statement I alone.

From II – $\frac{x}{y} = \frac{5}{1}$

On putting the value of x/y in the equation we obtain value of x and y.

So from statement II alone we can find the value of the required time.

So, from each statement individually we can find the value of required time.

90. (a); Let length of train be x meter so length of platform will be 2x meter

So, speed of train (in m/s) = $\frac{3x}{48}$

From I – ATQ, $\frac{x}{\frac{3x}{48} - 4} = 20$

So, x can be calculated from I and hence speed of train can be calculated.

From II – Statement II gives information only about percentage decrease in speed. We can not calculate speed of train because no information is given about time.

So statement I alone is sufficient to answer the question while statement II alone is not sufficient to answer the question.

91. (b); **From I** –

Probability of getting a black ball is = $\frac{1}{6}$

Let there are 'a' black balls & '6a' total balls

Similarly red balls = 'a'

Probability of getting a white ball = $\frac{2}{3} = \frac{4}{6}$

There will be 4a white balls.

$x = 6a$

But it can't be solved further.

From II –

Probability of getting a white balls = $1 - \frac{8}{23} = \frac{15}{23}$

Let here 15 m white balls and 23 m total remaining balls after 1 white ball is lost

And $23m + 1 = x$

$15m + 1$ is initial number of white balls

$15m$ is multiple of 15, it could be

15, 30, 45....

But it is given that initial number is less than 27. Therefore initial number of balls is $15m + 1 = 16$ balls, and now 15 balls are remaining. Hence $23m = x - 1$

Put $m=1$

$x=24$ balls

Hence it can be answered from (ii) alone.

92. (b); Selling Price after marking up and Discount given = $320 \times \frac{100+60}{100} \times \frac{50}{100} = 256$ Rs.

Selling Price when direct 20% profit is obtained = $320 \times \frac{120}{100} = 384$ Rs.

Required difference in selling price = $384 - 256 = 128$ Rs.

93. (d); Let cost price of article G be Rs. 'x'
Selling price of article G = $x \times \frac{200}{100} \times \frac{80}{100} = 1.6x$ Rs.
ATQ, $1.6x - x = 150 \Rightarrow x = \text{Rs.}250$

94. (e); Let cost price of article B and article E be Rs. 'x' and Rs. 'y' respectively

So, according to question

$\frac{220x}{100} \times \frac{3}{5} = \frac{175y}{100} \times \frac{4}{5}$

On solving, $\frac{x}{y} = \frac{35}{33}$

Required Percentage = $\frac{2}{33} \times 100 = 6\frac{2}{33}\%$

95. (a); Let CP of article C = $100x$
MRP of article C = $180x$
SP of article C = $180x \times \frac{3}{4} = 135x$
Required ratio = $\frac{180x}{135x} = 4 : 3$

96. (c); Let cost price of all the articles is same i.e. $100x$
So,
Selling price of A and B together = $250x \times \frac{3}{5} + 220x \times \frac{3}{5} = 150x + 132x = 282x$
MRP of article G = $200x$
Required Percentage = $\frac{282x - 200x}{200x} \times 100 = 41\%$

97. (e); Let cost price of article C be $100a$
So, cost price of article B will be $100a + 100$
Marked Price of article C will be $180a$
Marked price of article B $180a + 260$
According to question,
 $(100a + 100) \times \frac{220}{100} = 180a + 260$
 $220a + 220 = 180a + 260$
 $a = 1$

Selling Price of B = $(180a + 260) \times \frac{3}{5} = \text{Rs.}264$

Selling Price of article C = $180a \times \frac{3}{5} = \text{Rs.}108$

Required difference = $264 - 108 = \text{Rs.}156$

98. (d); Let the speed of boat in still water be x km/hr and that of speed of current be y km/hr
ATQ

$$x + y - (x - y) = 7$$

$$y = 3.5 \text{ km/hr}$$

$$\frac{45}{x+3.5} - \frac{13}{x-3.5} = \frac{80}{60}$$

$x = 10$ & 14 (14 is neglected because x should be multiple of 5)

$$\therefore x = 10 \text{ km/h}$$

New speed of current = 7 km/hr

$$\text{Distance travelled in upstream} = 7 \times (10 - 7) = 21 \text{ km}$$

99. (b); Let present age Ravi and Sneha be $7x$ and $6x$ years respectively

ATQ

$$\frac{7x-10}{6x-10} = \frac{5}{4}$$

$$x = 5$$

Present age of Ravi = 35 yr

And present age of Sneha = 30 yr

For maximum value of present total age of the family

Present age of triplet = 8 yr

Present age of twins = 6 yr

Present age of sixth child = 4 yr

And present age of seventh child = 2 yr

$$\begin{aligned} \text{Maximum present age of that family} &= 35 + 30 + 8 \times 3 + 6 \times 2 + 4 + 2 \\ &= 107 \text{ yr} \end{aligned}$$

100. (e); Here,

$$\frac{72}{r} = 2r$$

$$r = 6\% \text{ p. a.}$$

Time in which invested sum becomes double of itself = 12 years

ATQ

$$6,00,000 = 3,00,000 \left[1 + \frac{r}{100} \right]^{12}$$

$$\left[1 + \frac{r}{100} \right]^{12} = 2 \dots \dots \dots (i)$$

$$\begin{aligned} \text{Required amount} &= 3,00,000 \left[1 + \frac{r}{100} \right]^{48} \\ &= 3,00,000 \times (2)^4 = 48 \text{ lac} \end{aligned}$$

ENGLISH LANGUAGE

101. (d); Evidence in support of the given answer can be found from the following statements 'What if an AI-based driverless car gets into an accident that causes harm to humans or damages property? Who should the courts hold liable for the same?' and 'Some have warned that advances in AI could erode the fundamental logic of nuclear deterrence by enabling counter-force attacks against heretofore concealed and mobile nuclear forces.' From the given statements, both option (a) and (c) can be inferred clearly. Hence, the correct answer choice would be option (d)

102. (c); Evidence in support of the given argument can be found in the following statement 'AI-driven improvements to intelligence, surveillance, and reconnaissance would threaten the survivability of heretofore secure second-strike nuclear forces by providing technologically advanced nations with the ability to find, identify, track, and destroy their adversaries' mobile and concealed launch platforms.' Also, only option (c) can be inferred from the given passage and hence, the appropriate answer choice.

103. (a); Musing means giving a careful thought for a long period of time
Contemplation means think deeply and at length.
Decimate means kill, destroy, or remove a large proportion of.

Nurture means care for and protect

So, going through the meaning of the given words it can be clearly seen that the correct answer choice would be option (a)

104. (e); Going through the passage no appropriate reason for absence of regulation can be stated. Hence, the correct answer choice would be option (e).

105. (d); Discard means a thing rejected as no longer useful or desirable.

Flout means openly disregard

Embellish means make (a statement or story) more interesting by adding extra details that are often untrue

Illuminate means help to clarify or explain

Going through the given sentence and the meaning of the given words it can be clearly seen that the correct answer choice would be option (d)

106. (b); From the given options, only (b) is mentioned in the passage. Evidence in support of the given argument can be found from the following statement 'Germany is working on blemish present in it, like certain ethical rules for autonomous vehicles stipulating that human life should always have priority over property or animal life.' From the given statement option (b) can be inferred clearly and hence the correct answer choice would be option (b).

- 107. (d);** In part (A), usage of 'noting' is incorrect instead it should be 'noted' which means well known; famous. In part (B), use of 'is' is incorrect instead it should be 'was' as the given sentence is in past tense as can be seen from the usage of 'was' in the highlighted part. In part (D), usage of article 'a' is incorrect instead it should be 'an'. So, only part (C) is free from any grammatical error. Hence, the correct answer choice would be option (d)
- 108. (c);** In part (A), use of 'peoples' is incorrect because 'people' has both singular and plural sense in it, so there is no need to add 's' to make it plural. In part (C), instead of 'investigate' it should be 'investigating' as per the rule of parallelism and in part (D), instead of 'along' it should be 'around' the country. So, only part (B) is free from any error. Hence, the correct answer choice would be option (c)
- 109. (e);** There is no grammatical error in the given sentence. Hence, the correct answer choice would be option (e).
- 110. (d);** In part (A), instead of 'have' it should be 'has' because 'NGT' is singular. In part (B), instead of 'millions' we should use 'million' because we don't add 's' when we given exact number and in part (D), instead of 'treated' it should be 'treat'. So, only part (C) is free from error. Hence, the correct answer choice would be option (d).
- 111. (c);** In part (A), instead of 'was' it should be 'is' as the given sentence is in present tense as can be seen from the highlighted part. In part (C), instead of 'to' it should be 'from' and in part (D), instead of 'of' it should be 'to'. So, only (B) is free from any error. Hence, the correct answer choice would be option (c)
- 112. (b);** Evidence in support of the given answer can be found in the last line of the first paragraph in which it is stated 'Society doesn't reward defeat, and you won't find many failures documented in history books.' From the given statement it can be clearly seen that the world will only appreciate your efforts if you achieve success at the end or the efforts lead to success. Hence, the correct answer choice would be option (b)
- 113. (b);** From the given statements, only option (b) is incorrect. Given argument can be justified from the following sentence from the passage "To achieve any worthy goal, you must take risks," says writer and speaker John C. Maxwell. Remaining options are true as per the passage. Hence, the correct answer choice would be option (b)
- 114. (b);** Distressed means suffering from extreme anxiety, sorrow, or pain.
Sedulous means showing dedication and diligence.
Tense means unable to relax because of nervousness
Indifferent means having no particular interest or sympathy
So, going through the meaning of the given words it can be clearly seen that the appropriate answer choice would be option (b)
- 115. (c);** Evidence in support of the given argument can be found from the following statement 'However, in today's post-recession economy, some employers are no longer shying away from failure—they're embracing it.' Also, there are inadequate facts present to justify the remaining options. Hence, the correct answer choice would be option (c)
- 116. (c);** Taking hint from the contrasting structure of the sentence it can be clearly seen that the correct filler for the given blank should be 'mediocrity'. Hence, the correct answer choice would be option (c)
- 117. (d);** Gloss means try to conceal or disguise (something unfavourable) by treating it briefly or representing it misleadingly.
Unveil means show or announce publicly for the first time
Façade means a deceptive outward appearance.
Shimmer means shine with a soft, slightly wavering light.
Conceal means prevent (something) from being known
Going through the meaning of the given words it can be clearly seen that the appropriate answer would be option (d)
- 118. (b);** Fastening means a device that closes or secures something
Going through the meaning of the given words and taking hint from the use of helping verb 'are' after second blank, the appropriate filler for the given blank to make the given sentences both grammatically and contextually correct would be option (b)
- 119. (d);** From the given options, only 'inflation' can fit all the blanks to make grammatically and contextually meaningful sentences. Hence, the correct answer choice would be option (d)
- 120. (c);** From the given options, only 'explosive' can be used to fill the given blanks to make the given sentences both grammatically as well as

contextually meaningful. Hence, the correct answer choice would be option (c)

- 121. (d);** From the given options, statement in option (d) is incorrect. Evidence supporting given argument can be found in the following sentences 'The shrub was introduced to Yemen around the 14th century and it was then that the first coffee plantations were created. Muslim mystics and pilgrims appreciated coffee for its energising powers, so it travelled to Mecca. From that moment onwards, its success became unstoppable, bowling over Cairo, the Middle East and Constantinople, before arriving in Europe in the early 17th century.' Hence, the correct answer choice would be option (d)
- 122. (b);** From the given options, only 'espouse' is similar in meaning to the given word, remaining are its antonym. Hence, the correct answer choice would be option (b)
- 123. (e);** All of the given advantages of the coffee have been mentioned in the passage as can be seen from the following statement 'Muslim mystics and pilgrims appreciated coffee for its energising powers, so it travelled to Mecca. Intellectuals appreciated it for its ability to help one stay alert and to think clearly.' Hence, the correct answer choice would be option (e)
- 124. (b);** Going through the given sentence it can be clearly seen that the appropriate filler for the given blank would be 'ruined'. Hence, the correct answer choice would be option (b)
- 125. (c);** From the given options, only statement (c) is against the facts mentioned in the passage. Evidence in support of the given argument can be found from the following statement 'What we call the coffee bean is actually more like a seed or pit it grows inside a thin-fleshed fruit not unlike a cherry, which ripens about nine months after the coffee plant flowers.' Hence, the correct answer choice would be option (c)
- 126. (d);** First part of sentence (A) is providing the example of Brazil and sentence (C) is talking about the Ayushman Bharat. Taking hint from the use of 'world's largest' in sentence (C) and example of Brazil in (A) it can be clearly seen that the highlighted part of the both sentences can be interchanged to make a contextually meaningful sentence. Also, going through the first part of sentence (B) and (D) we can get an idea that the highlighted parts of these two can be interchanged to make a meaningful sentence. However, in sentence (E) no interchange is

required. Now for the rearrangement of the sentences thus formed take hint from the starting of the sentences. From the given sentences, only (D) is the appropriate choice for the first sentence. Next in arrangement would be (B) as can be seen from the use of 'partnership in healthcare' in (D). Fact stated in (B) is further supported by providing example of Brazil in sentence (A), so it will be next sentence in arrangement. Sentence (A) then will be followed by (C) and (E) to make a contextually meaningful paragraph. So, the final arrangement is **DBACE**.

- 127. (b);** First part of sentence (A) is providing the example of Brazil and sentence (C) is talking about the Ayushman Bharat. Taking hint from the use of 'world's largest' in sentence (C) and example of Brazil in (A) it can be clearly seen that the highlighted part of the both sentences can be interchanged to make a contextually meaningful sentence. Also, going through the first part of sentence (B) and (D) we can get an idea that the highlighted parts of these two can be interchanged to make a meaningful sentence. However, in sentence (E) no interchange is required. Now for the rearrangement of the sentences thus formed take hint from the starting of the sentences. From the given sentences, only (D) is the appropriate choice for the first sentence. Next in arrangement would be (B) as can be seen from the use of 'partnership in healthcare' in (D). Fact stated in (B) is further supported by providing example of Brazil in sentence (A), so it will be next sentence in arrangement. Sentence (A) then will be followed by (C) and (E) to make a contextually meaningful paragraph. So, the final arrangement is **DBACE**.

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129. (c); First part of sentence (A) is providing the example of Brazil and sentence (C) is talking about the Ayushman Bharat. Taking hint from the use of 'world's largest' in sentence (C) and example of Brazil in (A) it can be clearly seen that the highlighted part of the both sentences can be interchanged to make a contextually meaningful sentence. Also, going through the first part of sentence (B) and (D) we can get an idea that the highlighted parts of these two can be interchanged to make a meaningful sentence. However, in sentence (E) no interchange is required. Now for the rearrangement of the sentences thus formed take hint from the starting of the sentences. From the given sentences, only (D) is the appropriate choice for the first sentence. Next in arrangement would be (B) as can be seen from the use of 'partnership in healthcare' in (D). Fact stated in (B) is further supported by providing example of Brazil in sentence (A), so it will be next sentence in arrangement. Sentence (A) then will be followed by (C) and (E) to make a contextually meaningful paragraph. So, the final arrangement is **DBACE**.

130. (a); First part of sentence (A) is providing the example of Brazil and sentence (C) is talking about the Ayushman Bharat. Taking hint from the use of 'world's largest' in sentence (C) and example of Brazil in (A) it can be clearly seen that the highlighted part of the both sentences can be interchanged to make a contextually meaningful sentence. Also, going through the first part of sentence (B) and (D) we can get an idea that the highlighted parts of these two can be interchanged to make a meaningful sentence. However, in sentence (E) no interchange is required. Now for the rearrangement of the sentences thus formed take hint from the starting of the sentences. From the given sentences, only (D) is the appropriate choice for the first sentence. Next in arrangement would be (B) as can be seen from the use of 'partnership in healthcare' in (D). Fact stated in (B) is further supported by providing example of Brazil in sentence (A), so it will be next sentence in

arrangement. Sentence (A) then will be followed by (C) and (E) to make a contextually meaningful paragraph. So, the final arrangement is **DBACE**.

131. (d); Inception means the establishment or starting point of an institution or activity.
Adoption means the action or fact of choosing to take up, follow, or use something.
Proposal means a plan or suggestion, especially a formal or written one
Going through the meaning of the given words it can be clearly seen that the correct answer choice would be option (d)

132. (b); Juvenile means childish; immature.
Embattled means involved in or prepared for war
Sprouting means appear or develop suddenly and in large numbers.
Endangered means seriously at risk of extinction.
Going through the meaning of the given words it can be clearly seen that the correct answer choice would be option (b)

133. (c); Rite means a social custom, practice, or conventional act.
Abash means make (someone) feel embarrassed
Berth means a position in an organization or event.
Ramification means complex or unwelcome consequence of an action or event.
Going through the meaning of the given words it can be clearly seen that the appropriate answer choice would be option (c)

134. (a); Barred means prevent or prohibit (someone) from doing something
Adjourned means put off or postpone
Incurred means to experience something bad as a result of actions you have taken:
Discord means the state of not agreeing or sharing opinions
So, going through the meaning of the given options, it can be clearly seen that the correct answer choice would be option (a)

135. (c); Entitled means give (something) a particular title.
Coveted means greatly desired or envied.
Lodged means make or become firmly fixed or embedded in a place.
Melee means a confused fight or scuffle.
So, going through the meaning of the given options it can be clearly seen that the correct answer choice would be option (c)

136. (d); Taken off means depart from the ground

Called off means to cancel or abandon
 Pay off means yield good results; succeed.
 Siphoning means draw off or transfer over a period of time, especially illegally or unfairly
 So, going through the meaning of the given words it can be clearly seen that the correct answer choice for the given question would be option (d)

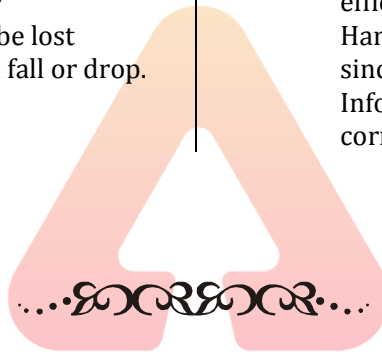
- 137. (e);** Word used in the given question is both grammatically as well as contextually correct. So the correct answer choice would be option (e)
 Journal means a record of things that you have done
 Intrinsic means being an extremely important and basic characteristic of a person or thing
 Luscious means pleasing to see, hear, or feel
 Novice means a person who is not experienced in a job or situation.

- 138. (b);** Disseminate means spread widely
 Squander means allow to pass or be lost
 Plummet means a steep and rapid fall or drop.

Going through the meaning of the given options, it can be clearly seen that the correct answer choice would be option (b)

- 139. (b);** From the given options, only (ii) is able to connect the given sentences to make a meaningful and grammatically correct sentence. The sentence thus formed is 'Owing to the 17 new cases of the virus have been confirmed and there is increasing possibility of spread of virus to other countries, China will step up efforts to contain the coronavirus outbreak ahead of the Lunar New Year holidays.' Hence, the correct answer choice would be option (b)

- 140. (c);** From the given starters, only (iii) is able to connect the given sentences to make a sentence which is both grammatically correct and contextually meaningful. The sentence thus formed is 'In what raises the doubts about the efficacy of the Right to Information Act in Haryana, only 35% penalty has been recovered since the setting up of the Haryana State Information Commission in 2006.' Hence, the correct answer choice would be option (c)



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REASONING ABILITY

Direction (1-4): Study the following information to answer the given questions:

Twelve persons are sitting around two circular table as one is inscribed in another one. All of them are facing towards the center.

A, B, C, D, E, F six persons are sitting around the inner circular table.

P, Q, R, S, T, U six persons are sitting around the outer circular table.

Note- The persons of outer circular table are sitting exactly behind the persons sitting around the inner circular table.

B is sitting second to the right of E. R is an immediate neighbour of the one who is sitting behind B. Only one person sits between A and F (either from the left or from the right). A is not an immediate neighbour of B. P is sitting behind F. Only two persons sit between R and T (either from the left or from the right). U is an immediate neighbour of P. D is an immediate neighbour of A. T is not sitting behind D. Q is not an immediate neighbour of R.

- Who among the following person is sitting third to the left of A?
(a) F (b) E (c) D
(d) B (e) None of these
- How many persons are sitting between S and P in the outer circle?
(a) One (b) More than three
(c) Three (d) None
(e) Two
- Four of the following are alike in a certain way so form a group which of the following does not belong to the group?
(a) A, P (b) C, R (c) E, T
(d) B, U (e) D, S
- Who among the following person is sitting immediate right of S?
(a) P (b) T (c) U
(d) R (e) Q
- Six persons A, B, C, D, E and F lives on 6 different floors of a same building. Bottommost floor is first, the floor above it is second and so on till topmost floor which is sixth. A lives on odd numbered floor. C lives immediately below A. Two floors gap between floors of C and F. D lives immediately above F. B lives above E, who lives below F. How many persons live below E?
(a) None (b) One (c) Two
(d) Three (e) Four

- Seven letters are arranged in a linear arrangement to form a meaningful word. A is second to the left of I. L is to the left of N. Not more than two letters are placed between I and G. G is placed to the right of I. G is not neighbor of E and D. D and E are placed next to each other. Which letter is placed in exactly middle of the meaningful word so formed. If more than one word is formed mark your option as X?

- (a) N (b) L (c) X
(d) E (e) G

Directions (7-9): Study the following information carefully to answer the given questions:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and rearrangement.

INPUT—2538 5628 8516 7524 6325 2645

STEP I- 2358 2568 1568 2457 2356 2456

STEP II- 1568 2356 2358 2456 2457 2568

STEP III- 56 35 35 45 45 56

STEP IV- 11 8 8 9 9 11

Step IV is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

Input: 3846 9213 8273 7341 5218 3285 6925 4758

- What will the addition of the numbers which is second, forth, sixth and eight from the left end in step IV?
(a) 32 (b) 23 (c) 38
(d) 40 (e) None of these
- Which of the following would be the difference of the numbers which is 2nd from left end in step I and forth from right end in Step II?
(a) 1138 (b) 1287 (c) 1139
(d) 2125 (e) None of these
- Which of the following element will be 3rd to the left of 7th from the left end in step III?
(a) 34 (b) 37 (c) 25
(d) 35 (e) None of these

Direction (10): In the following question a statement is given followed by two more statements numbered as I and II. You have to read both the statement and decide which of them strength which of them strengthens or weakens the statement.

The company A used to outsource its recruitment process for some years but this year the company has decided to conduct the recruitment process within the Organisation.

- I. The employees who have been working in the Organisation are aware of that hard work is required to work in the company.
- II. The company has decided to appoint three new persons in its senior level authority for the smooth recruitment process.
- (a) Both I and II strengthens
 (b) I strengthen while II weakens
 (c) II strengthens while I is neutral
 (d) Statement I and Statement II is neutral.
 (e) Both I and II weakens.

Directions (11-14): Study the following information carefully and answer the questions given below:

Six boxes P, Q, R, S, T and U are placed in a stack one above other. Each contains different number of chocolates viz. 250, 190, 119, 175, 280 and 210.

Box P is placed immediately above box R. Three boxes placed between R and the box which contains 250 chocolates. Box which have 175 chocolates is just above the box which have 250 chocolates. One box placed between box T and the box which have 175 chocolates. U contains 210 chocolates. The box which contain 119 chocolates is placed below box U. Three boxes placed between box S and the box which have 119 chocolates. One box is placed between box Q and the box which have 190 chocolates.

11. Which box contains 210 chocolates?
 (a) U (b) Q (c) R
 (d) S (e) P
12. Which box is placed at topmost position?
 (a) U (b) Q (c) R
 (d) S (e) P
13. Box R and T together contains how many chocolates?
 (a) 399 (b) 369 (c) 294
 (d) 309 (e) 400
14. How many boxes are placed between box Q and the box which have 119 chocolates?
 (a) one (b) two (c) three
 (d) four (e) none

Directions (15-17): In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

15. **Statements:** Some tube are bulb.
 All light are tube
 All current are light.

Conclusions:

- I. Some Current are bulb
 II. Some light being bulb is a possibility.
 III. Some tube are not current.
 (a) Both I and III follows
 (b) either I or II follows
 (c) Only II follows
 (d) None follows
 (e) None of these

16. **Statements:** Some file are copy
 Some copy are eraser.
 No Pen is file.

Conclusions:

- I. Some file are eraser
 II. All pen can never be copy.
 III. No file is eraser
 (a) Only I follow
 (b) Only II follows
 (c) Only III follows
 (d) Either I or III follows
 (e) None of the above

17. **Statements:** Some file are copy
 Some copy are eraser.
 No Pen is file.

Conclusions:

- I. All copy can be pen.
 II. Some copy can never be pen.
 III. Some eraser being pen is a possibility.
 (a) Only I follow
 (b) Only II follows
 (c) Only III follows
 (d) Only II and III follows
 (e) None of the above

Directions (18-21): Study the following information carefully and answer the questions given below.

Six persons J, K, L, M, N, O are born in six different years 1946, 1958, 1963, 1971, 1994, 2006. All of them like different colours Red, Black, Orange, Pink, White, Yellow. Note- All the calculations of the ages are to be done on the basis of year 2019.

The sum of the ages of M and the one who likes Black colour is 86. The one who likes Pink colour was born in an even numbered year. M does not like red colour. The one who likes Pink colour is older than the one who likes Black colour. M does not like Pink colour. K is older than the one who like Pink colour. N likes Orange and was born in an odd numbered year. The sum of the ages of J and the one who likes Yellow colour is 81. O is younger than the one who likes orange colour. L does not like yellow colour.

18. Who among the following likes Red colour?
 (a) J (b) O (c) M
 (d) L (e) None of these

19. How many persons born after O?
 (a) Two (b) Four (c) None
 (d) One (e) Three
20. Which of the following statement is not correct regarding K?
 (a) K is younger than M
 (b) K likes Yellow
 (c) K is elder to J
 (d) The one who likes White is younger than K
 (e) All are correct
21. In which of the following year J was born?
 (a) 1994 (b) 1958 (c) 1971
 (d) 2006 (e) 1946
22. Six persons L, M, N, O, P and Q sit in a linear row adjacent to each other facing north. Three persons sit between Q and P. N sits immediate left of Q. Two persons sit between N and M. How many persons sit to the left of M?
 (a) one (b) two (c) three
 (d) four (e) None
23. Which of the following symbols should replace the sign (@) and (%) respectively in the given expression in order to make the expression $L \geq U$ and $R > J$ definitely true?
 $L \geq K \geq P = N = J @ U \leq A \% R$
 (a) $\leq, =$ (b) \leq, \leq (c) $>, \leq$
 (d) $=, <$ (e) $\geq, <$
24. Which of the following will be definitely true if the given expression $T \geq U \geq M = N < J = P < Q \leq R$ is definitely true?
 (a) $T < J$ (b) $U > M$ (c) $R > N$
 (d) $R \geq M$ (e) $T < P$
- Directions (25-28):** Study the following information carefully and answer the questions given below.
 Twelve persons are born on three different dates 5, 12, 21 of four different months viz. March, May, September and November. Only one person is born on one date of a month. J was born on 5 of a month having 30 days. Only three persons were born between J and H. H does not born on an even date of a month. As many as persons born after H as born before A. Five persons born between A and D. Only two persons born between F and E. C born on an even date but immediately after K. Six person born between C and B. E born immediately before B. M born on an even date after L but before G.
25. How many persons born between C and F?
 (a) Two
 (b) More than three
 (c) Three
 (d) One
 (e) None
26. Who among the following is born immediate before G?
 (a) K (b) L (c) J
 (d) M (e) D
27. H born on which of the following day?
 (a) 21 May (b) 12 March (c) 5 September
 (d) 21 March (e) 5 May
28. Which of the following statements is true?
 (a) J and G both were born in same month
 (b) F was born on odd date
 (c) G was born on 5th
 (d) B was born on 21st
 (e) All are true.
29. In a certain code, numbers from (0-9) are coded as four alphabets i.e. '0389' is coded as 'AACD', '146' coded as 'ABA', then how is '257' coded?
 (a) CBA (b) CDA (c) BAC
 (d) AAD (e) BCB
30. If all the letters of each given words are arranged in alphabetical order within the words, then in how many words third and fifth letter remains on the same position as earlier?
 I. MBEKT YD
 II. GPNAQUS
 III. XCJRHO
 (a) Only I (b) Only I and II (c) All I, II and III
 (d) Only II (e) None
- Directions (31-32):** Study the following information carefully and answer the questions given below.
 The principal of St. Mary school organized extra classes for week students of X class and the concerned teachers are getting paid extra amount for the classes. But the average salary of teachers more or less remains the same.
31. Which of the following can be assumed from the given statement?
 (I) The students of class X of school Y will score more marks than students of St. Mary school.
 (II) Students of class X are not serious about exams.
 (III) Extra classes arranged by the principal for students of class X will help the students to score well in exams.
 (a) Both I and II (b) Both II and III (c) Only II
 (d) Only III (e) None of these
32. What can be the reason behind the average of the salary remain same of teachers?
 I. Student of class X attend the extra class two or three days in a week although the teachers provide the class regularly.
 II. Teachers started taking more holidays after the commencement of the extra classes.

- III. Teachers are already working overtime for checking and preparing homework for students on daily basis.
 (a) Both I and II (b) Both II and III (c) Only II
 (d) Only III (e) None of these

Direction (33): The tuda company is the third largest producer of steel with 1.5 lakh employees. The company is going to start a new unit by hiring 35% of its current employees. After its commencement the company will become the largest steel producer with 32.5 billion turnover.

33. Which of the following can be inferred from the given statement?
- The app. turnover of new unit of tuda company will be 1.5 million.
 - The company is required to hire 52000 employees.
 - With 52500 new employees of the new unit, the company will be able to reach the 32.5 million turnover.
 - The turnover of the tuda company is now below 32.5 million.
- (a) Both I and II (b) Both II and III (c) Only IV
 (d) Only III (e) Both III and IV

Directions (34-37): Study the following information carefully and answer the questions given below.

Ten persons are standing in a row facing north. All of them earn different amount viz. 3000, 4500, 5000, 7000, 8500, 10000. Three persons are standing between B and R. H is standing immediately ahead of B. L is standing adjacent to R. L is standing at extreme end. Six persons are standing between A and Y. Y is standing behind A. Only one person is standing between A and D. Q is standing ahead of G but behind Z.

The following information is given for the amount earn by them—

S@P means S earn more than P.

S#P means S earn less than P.

S\$P means S earn equal to P.

The amount earn by all of them is given below—

A@Z\$H@R\$Q\$G, Y\$D#G, A#L#B

34. What will be the sum of the amount earn by Q, Z and L?
 (a) 19000 (b) 18000 (c) 17000
 (d) 20000 (e) 12000
35. How many persons are standing ahead of B?
 (a) Two (b) More than three
 (c) Three (d) One
 (e) None
36. How many persons are standing between Q and R?
 (a) Two (b) More than three
 (c) Three (d) One
 (e) None

37. How many persons earn less than G?
 (a) Two
 (b) More than three
 (c) Three
 (d) One
 (e) None

Directions (38-40): Study the following information carefully and answer the questions given below.

A%B (7)- A is 12m in north of B

A\$B (12)- A is 17m in south of B

A#B (32)- A is 37m in east of B

A&B (14)- A is 19m in west of B

M%K (33), J#K (9), G%J (19), H&G (23), N\$H (25)

38. K is in which direction with respect to G?
 (a) North (b) West (c) North-west
 (d) East (e) South-west
39. If Z is the midpoint of the line formed between H and G, then what is the distance between H and Z?
 (a) 12m (b) 14m (c) 16m
 (d) 17m (e) 30m
40. If X is in west of J and lies on the line formed by H and N, then what is the distance between X and N?
 (a) 10m (b) 24m (c) 6m
 (d) 16m (e) 14m

Directions (41-45): In each of the following below is given a group of letters followed by four combinations of digits/symbols numbered (a), (b), (c) and (d). You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as the answer. If none of the four combinations correctly represents the group of letters, mark (e), i.e. 'None of these', as the answer—

Note: More than one condition may apply.

Letter	R	G	F	A	P	Q	U	M	E	I	B	J	S	O	L
Digit/ Symbol	#	2	7	μ	%	3	&	9	1	@	5	©	6	8	\$

Conditions:

- If first letter is vowel and last letter is consonant then both are coded with the code of the consonant.
- If both the 2nd and the last letter is vowel, then their codes are to be interchanged.
- If the second letter is a consonant and the 2nd last letter is a vowel, both are to be coded as the code for the vowel.
- If both 1st and fifth letter is consonant then both are coded as the code of third letter.
- If only one condition is applied among the above given, then the code of first letter is interchanged with code of second letter and third letter code interchanged with 4th letter and so on after that applied condition.

41. AMGFIS
(a) 6@27@4 (b) 6@27@6 (c) 6@27#6
(d) 6@2@76 (e) None of these
42. PUGRLE
(a) 2122#& (b) 221#2& (c) 212#&2
(d) 212#2& (e) None of these
43. UAIMUI
(a) @&9@μ& (b) @&@9μ& (c) @9&@μ&
(d) @&99μ& (e) None of these
44. MJGLBF
(a) ©2\$227 (b) ©\$2272 (c) ©\$2227
(d) ©2\$2\$2 (e) None of these
45. GFPQMB
(a) %7%3%5 (b) 27%395 (c) 7%3%5%
(d) %7%395 (e) None of these
46. **Statement-**The Union health ministry has made Aadhaar a compulsory document for tuberculosis patients to be able to avail treatment under the government's Revised National Tuberculosis Control Programme (RNTCP).
(I) A person cannot take treatment of TB without Aadhar card.
(II) Patients suffering from TB will be unable to get benefits under a central government scheme till they produce their Aadhaar card.
(III) An individual eligible to receive the benefit under the scheme, is hereby, required to furnish proof of possession of Aadhaar number or undergo Aadhaar authentication.
(IV) The World Health Organisation(WHO) recently said that tuberculosis epidemic in India was "larger" than what had been previously estimated.
Which of the following could be the inference of the given statement?
(a) Only II (b) Only I and III (c) Only II and III
(d) Only I (e) None of these
47. **Statement-** The Captain Amarinder Singh-led government in Punjab has announced free education for girls in government schools and colleges from Nursery to PhD.

- (I) Good social welfare law. It is initially for girls as they are comparatively disadvantaged. Hopefully it will soon be followed by free education for everyone.
- (II) It is gender biased as if a poor or average person wants to educate his son for higher education he has to pay higher bills .If you are introducing a law / scheme / bills under no circumstance it should not favour any particular gender, if they are really concerned about education.
- (III) Do not differentiate a poor or average person on gender. A poor boy or man should also get free education as well.

Which of the following argument holds strong for the given statement?

- (a) Only II (b) Only III (c) Only II and III
(d) Only I and II (e) All of the above

Directions (48-50): Study the given information carefully to answer the following questions:

Six persons i.e. A, B, C, E, F and G who all are sitting around a circular table facing outside. They all are of different age. F is third youngest person. Only two persons sits between E and F. G sits second to the left of C, who is 20 years of age. The one who is second oldest person is of 24 years of age. G is elder than A and C but not the eldest. C sits on the immediate right of E. B is elder than A and G. A and G are not immediate neighbours. The one who is the youngest is less than 20 years of age. A is not younger than F.

48. What will be the possible age of A?
(a) 25 years (b) 20 years (c) 27 years
(d) 19 years (e) 22 years
49. What is the position of G with respect to A?
(a) Third to the left
(b) Second to the right
(c) second to the left
(d) Both (a) and (e)
(e) Third to the right
50. Who among the following is the youngest among all?
(a) A (b) E (c) C
(d) F (e) None of these

QUANTITATIVE APTITUDE

Direction (51-55): In the given questions, two quantities are given, one as 'Quantity 1' and another as 'Quantity 2'. You have to determine relationship between two quantities and choose the appropriate option:

51. A is twice as efficient as B. Both can complete a work together in $7\frac{1}{2}$ days.

Quantity 1: Time taken by B to complete the work alone.

Quantity 2: If C is 50% more efficient than A, then time taken by C to complete the work alone.

- (a) Quantity 1 > Quantity 2
 (b) Quantity 1 \geq Quantity 2
 (c) Quantity 2 > Quantity 1
 (d) Quantity 2 \geq Quantity 1
 (e) Quantity 1 = Quantity 2 or Relation cannot be established

52. One of the roots of $2x^2 + bx - 5 = 0$ is 1.

Quantity 1: Value of the other root.

Quantity 2: 2.5

- (a) Quantity 1 > Quantity 2
 (b) Quantity 1 \geq Quantity 2
 (c) Quantity 2 > Quantity 1
 (d) Quantity 2 \geq Quantity 1
 (e) Quantity 1 = Quantity 2 or Relation cannot be established

53. Two dices are rolled simultaneously.

Quantity 1: Probability that the sum of the numbers that appeared is a multiple of 5.

Quantity 2: $\frac{1}{6}$

- (a) Quantity 1 > Quantity 2
 (b) Quantity 1 \geq Quantity 2
 (c) Quantity 2 > Quantity 1
 (d) Quantity 2 \geq Quantity 1
 (e) Quantity 1 = Quantity 2 or Relation cannot be established

54. Sum of height and diameter of the cylinder is 28 meter.

Quantity 1: Curved surface area of the cylinder whose respective ratio of height to diameter is 3 : 4

Quantity 2 : Curved surface area of the cylinder if height of cylinder is 10 m.

- (a) Quantity 1 > Quantity 2
 (b) Quantity 1 \geq Quantity 2
 (c) Quantity 2 > Quantity 1
 (d) Quantity 2 \geq Quantity 1
 (e) Quantity 1 = Quantity 2 or Relation cannot be established

55. Product of digits of a two digits number 'N' is 21

Quantity 1 : N

Quantity 2 : $130 - N$

- (a) Quantity 1 > Quantity 2
 (b) Quantity 1 \geq Quantity 2
 (c) Quantity 2 > Quantity 1
 (d) Quantity 2 \geq Quantity 1
 (e) Quantity 1 = Quantity 2 or Relation cannot be established

56. From container A containing 54 liter of mixture of milk and water in ratio of 8 : 1, 18 liter of the mixture is taken out and poured into container B in which ratio of milk to water is 3 : 1. If difference between total milk and total water in container B is 30 liter then find the quantity of initial mixture in container B.

- (a) 30 Liter (b) 28 Liter (c) 32 Liter
 (d) 36 Liter (e) 40 Liter

57. In a match of 50 overs, team A's average runs for first thirty overs was 4.5 runs/over while for the remaining 20 overs the average was 5.5 runs/over. Team B chased the target and lost by 10 runs. Find the average runs per over scored by team B. (team B played all the 50 overs).

- (a) 4.4 (b) 5.2 (c) 4.7
 (d) 5.6 (e) 3.8

58. In a bag which contains 40 balls, there are 18 red balls and some green and blue balls. If two balls are picked up from the bag without replacement, then the probability of the first ball being red and second being green is $\frac{3}{26}$. Find the number of blue balls in the bag.

- (a) 16 (b) 12 (c) 10
 (d) 14 (e) 8

59. A is 50% more efficient than B. They together start the work and $\frac{7}{12}$ th of work is left after 8 days. Find in what time B alone will complete the whole work.

- (a) 36 days (b) 44 days (c) 50 days
 (d) 40 days (e) 48 days

Direction (60 - 65): Given below table shows number of employees joined (at the beginning of the year) & left (at the end of the year) in three companies i.e. A, B & C in three years (2001, 2002 & 2003). Read the data carefully and answer the questions. (Some data are missing).

Years	A		B		C	
	Joined	Left	Joined	Left	Joined	Left
2001	102	—	96	18	84	36
2002	78	24	72	—	108	—
2003	112	—	144	—	124	28

60. In year 2000 total employee who joined A is 64 which is 32% of total employee working in A that year and total employee who left A in year 2000 & 2001 is 20 & 32 respectively. If employee left B in year 2002 is 16 and this company starts in 2001, then find total employee working in B at the end of 2002 is approximate what percent of total employee working in A at the end of 2002?

- (a) 36% (b) 48% (c) 52%
(d) 44% (e) 56%

61. The ratio of total employee who left B & C in the year 2002 is 7 : 9 and total employee working in B & C at the end of 2000 are 160 & 172 respectively. If total employee working at the end of 2003 in C is 406, then find total employee working in B at the end of 2002?

- (a) 284 (b) 296 (c) 298
(d) 302 (e) 306

62. Total employee working in B at the end of 1999 is 220 and 28 employee left company in 2000, while 32 new employees joined the company. If respective ratio of employee left the company B in year 2002 & 2003 is 6 : 7 and total employee working in B at the end of 2003 is 466, then find total employee left B in 2002 & 2003 together?

- (a) 52 (b) 48 (c) 42
(d) 36 (e) 32

63. The average of total employee left company A in the given three years is 21 and ratio of employee left in 2001 to in 2003 is 7 : 6. If company A start in 2001, then find total employee working in A at the end of 2002 is what percent more than total employee who joined company C in the year 2002?

- (a) 20% (b) 15% (c) 25%
(d) 30% (e) 22.5%

64. Total employee who left C in the year 2002 is $33\frac{1}{3}\%$ more than total employee who left A in same year and

total employee who left B in 2002 is 62.5% of total employee who left C in same year. If all three companies start in 2001 and total 22 employee left A in 2001, then find the respective ratio of employee working in B, C & A at the end of 2002?

- (a) 65 : 62 : 69 (b) 66 : 62 : 69 (c) 65 : 61 : 67
(d) 61 : 62 : 69 (e) 65 : 62 : 67

65. Each company start in 2001 and ratio of total employee left A in 2001 to that of B & C together in 2002 is 1 : 2. If total employee who left A in 2001 and that of B & C together in 2002 is 36 and total employee who left B in 2002 is 50% of employee who left C in same year, then find difference between total employee working in C at the end of 2003 and total employee working in A at the end of 2002 ?

- (a) 92 (b) 82 (c) 72
(d) 96 (e) 86

Directions (66-71): In each of these questions, two equations numbered I and II are given. You have to solve both the equation and give answer

- (a) if $x < y$
(b) if $x \leq y$
(c) if $x > y$
(d) if $x \geq y$
(e) if $x = y$ or the relationship cannot be established

66. I. $2x^2 + 11x + 15 = 0$ II. $4y^2 + 13y + 9 = 0$

67. I. $x^2 - 36x + 324 = 0$ II. $y^2 - 35y + 216 = 0$

68. I. $x = (216)^{1/3}$ II. $y^2 = 6$

69. I. $2x^2 + 17x + 35 = 0$ II. $3y^2 + 17y + 24 = 0$

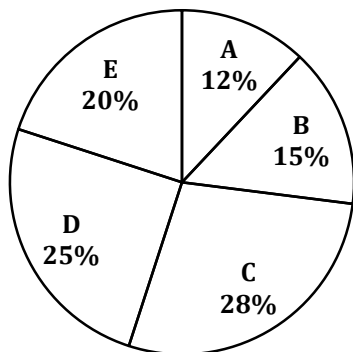
70. I. $x^2 + 72 = 108$ II. $y^3 + 581 = 365$

71. I. $8x^2 + 58x + 39 = 0$ II. $8y^2 - 14y - 15 = 0$

Direction (72 – 77) : Given pie chart shows percentage distribution of viewers of a Tv channel in five different villages (A, B, C, D & E) and table shows number of viewers who subscribed the channel. Read the data carefully and answer the questions.

Note – Total viewers = Total subscriber + Total unsubscribe

TOTAL VIEWERS = 3000

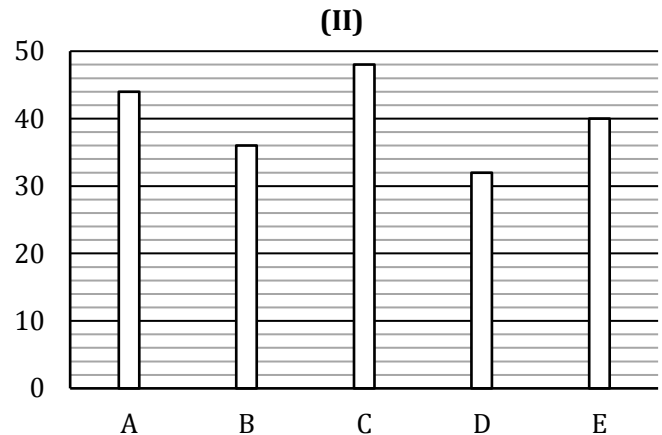
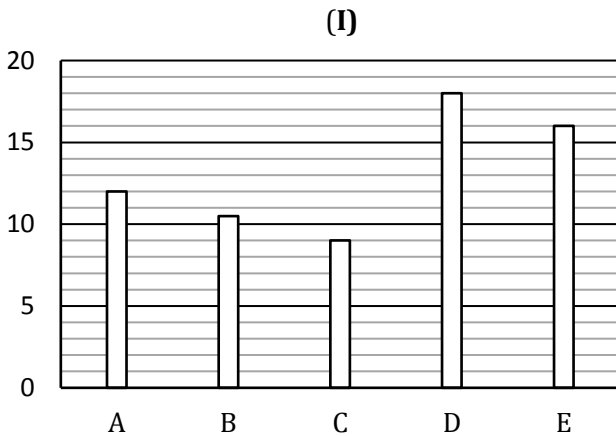


Villages	People who subscribed
A	220
B	250
C	440
D	350
E	180

72. Total unsubscribed viewers from B & E together is what percent more than total unsubscribed viewers from C?
 (a) 50% (b) 55% (c) 45%
 (d) 40% (e) 42%
73. If total male unsubscribed viewers in D is $66\frac{2}{3}\%$ more than that of female unsubscribed viewers, then find ratio of total male unsubscribed viewers in D to total unsubscribed viewers in A & C together?
 (a) 25 : 53 (b) 25 : 54 (c) 7 : 9
 (d) 23 : 54 (e) 2 : 3
74. Find the central angle for total unsubscribed viewers in B & C and total subscribed viewers in E together with respect to total viewers?
 (a) 133.6° (b) 136.6° (c) 63.6°
 (d) 130.6° (e) 93.6°
75. Out of total viewers in village C, $46\frac{3}{7}\%$ are female and $\frac{7}{13}$ th of total female are unsubscribed viewers, then find total unsubscribed male viewers from village C?
 (a) 170 (b) 180 (c) 210
 (d) 190 (e) 250
76. In another village F total subscribed viewers are 20% more than total unsubscribed viewers in village A and total subscribed viewers in village F are $\frac{3}{7}$ th of total viewers in that village. Find total unsubscribed viewers from village F is what percent less than total unsubscribed viewers from village C?
 (a) 42% (b) 44% (c) 48%
 (d) 46% (e) 40%
77. If the above data given for the year 2017 and in 2018 total viewers increased by 40%, while percentage distribution of viewers of TV channel in five different villages remain same as in 2017. If number of subscribed viewers from village A, B, D & E in 2018 increased by 25%, 20%, 14% & 10% respectively and total subscribed viewer from all the five village in 2018 are 1400, then find total unsubscribed viewers from C in 2018?
 (a) 942 (b) 952 (c) 948
 (d) 956 (e) 964
- (a) Statement A alone is sufficient to answer the question but statement B alone is not sufficient to answer the questions.
 (b) Statement B alone is sufficient to answer the question but statement A alone is not sufficient to answer the question.
 (c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
 (d) Either statement A or statement B by itself is sufficient to answer the question.
 (e) Statements A and B taken together are not sufficient to answer the question
78. What is the value of rate of interest?
 A. A sum of Rs 8000 is invested at simple interest for 3 years in scheme A which offers a certain rate of interest. Amount obtained from scheme A is equal to the amount obtained when Rs 9000 is invested in scheme B for 2 years at C.I.
 B. Rate of interest for scheme B is same as rate of interest for scheme A.
79. 4 men & 18 women can do a piece of work in 2.5 days, then in how many days 12 woman can complete the same piece of work?
 A. Ratio of efficiency of men to women is 3 : 2.
 B. 6 men & 6 women can complete the same work in 4 days.
80. What will be speed of stream, if speed of boat in still water is 22.5 km/hr?
 A. The time taken by boat to cover 120 km upstream is 4 hours more than time taken by boat to cover same distance in downstream.
 B. Boat takes total 15 hours to cover 150 km in downstream and upstream.
81. What will be sum of two natural numbers X & Y?
 A. X & Y both are multiple of 24, while X is 50% more than Y.
 B. $\frac{X}{30}$ & $\frac{Y}{40}$ both are natural number.
82. There is (2a+ 16) students in a class with three streams, i.e. art, science & commerce. The ratio of students who take art to science is 4 : 1. Find total number of students in class.
 A. Total students who take art is 8 more than total students who take commerce and probability of selecting one student who take science is $\frac{1}{8}$.
 B. Total commerce students in class are 25% less than total art students in the class.

Directions (78-82): The following questions are accompanied by two statements A and B. You have to determine which statements(s) is/are sufficient / necessary to answer the questions.

Direction (83 – 88): Given below bar graph (I) shows total students (Boys + girls) in thousands who have taken admissions in five different college and bar graph (II) shows percentage of girls taken admission in these five colleges. Read the data carefully and answer the questions.



- 83.** Total boys taken admission in college B & D together are what percent more than total boys taken admission in E?
 (a) 92.5% (b) 97.5% (c) 99.5%
 (d) 102.5% (e) 84.5%
- 84.** 75% and 80% of total girls taken admission in college A & C respectively appeared in exam and total students appeared in exam from A & C is 17910. If total boys appeared in exam from A is 6048, then find difference between boys who did not appeared in exam from college A & C?
 (a) 438 (b) 428 (c) 418
 (d) 408 (e) 448
- 85.** Find the ratio of total boys taken admission in college A & B together to total girls taken admission in D & E together?
 (a) 13 : 11 (b) 23 : 19 (c) 21 : 17
 (d) 21 : 19 (e) None of these
- 86.** If in college F total girls taken admission are 62.5% more than that of total girls taken admission in C and total boys taken admission in college E & F together is 20580, then find percentage of girls taken admission in college F?
 (a) 33% (b) 43% (c) 39%
 (d) 37% (e) 45%
- 87.** In each college there are only three streams (i.e. science, commerce & art) and in college B respective ratio of students taken admission in science, commerce & art is 2 : 1 : 4. If out of total girls taken admission in college B, 40% taken admission in science stream, 25% taken admission in commerce stream, then find difference between boys taken admission in art & science streams from college B?
 (a) 3242 (b) 3464 (c) 3189
 (d) 3345 (e) 2964
- 88.** Find the average number of boys taken admission from all the five given colleges?
 (a) 7992 (b) 7982 (c) 6848
 (d) 7292 (e) None of these
- 89.** There is a square field of area 'X' square meters. A cylindrical ditch of radius 7 meters and depth 2 meters is dug, and the earth is taken out and spread over the remaining part of the square field, the height of square field which goes up by 0.77 meters. What is the value of 'X' ?
 (a) 548 m² (b) 524 m² (c) 518 m²
 (d) 554 m² (e) 504 m²
- 90.** A man invested an amount at the rate of 10% p.a. on compound interest and after two years he again invested half of the initial amount. If man got Rs. 457.2 Rs. as interest after three years, find the amount received by man after three years, if he invested same amount on simple interest at rate of 15% p.a.?
 (a) 1740 Rs. (b) 1720 Rs. (c) 1760 Rs.
 (d) 1780 Rs. (e) None of these
- 91.** A and B entered in a business by making investment of Rs. 4000 & Rs. 5500 respectively. After six months A & B withdrew Rs. 1000 and Rs. 1500 respectively and C joined them with capital of Rs. 4x. If after one year and three months C received Rs. 2250 as profit share out of total profit of Rs. 12250, then find investment of C?
 (a) Rs. 3600 (b) Rs. 3200 (c) Rs. 4400
 (d) Rs 3000 (e) Rs. 2800
- 92.** Train A can cross a man in 8 sec and a 180 m long platform 'P' in 17 sec. If train A cross train B which is running in opposite direction at speed of 108 km/hr in 8 sec, then find time taken by train B to cross platform P?
 (a) 16 sec (b) 11 sec (c) 14 sec
 (d) 12 sec (e) 15 sec

93. There are two shopkeepers, first shopkeeper calculates his profit percent on the selling price whereas the second shopkeeper calculates his profit percent on the cost price. If the selling price for both the shopkeeper is same and the difference between their profits is Rs.175. Then, calculate the sum of the cost price for both the shopkeeper if the profit percent for the both shopkeeper is 25%?

- (a) Rs 5425 (b) Rs 4875 (c) Rs 4675
(d) Rs 5275 (e) Rs 5325

94. If 6 years are subtracted from the present age of Ayush and takes 25% of that then we get the present age of his only son. 4 years ago, his daughter's age is 7 years more than his son. Sum of daughter's present age and his wife's present age is 10 years more than Ayush's present age then find the present age of Ayush if average of present age of entire family is 30.25 yr ?

- (a) 45 year (b) 50 year (c) 60 year
(d) 40 year (e) 36 year

95. 'X' is a bread seller who marked up price of each bread packet by 150% above and allow discounts of 40% and made a profit of Rs. 30 on each bread packet. If 'X' allows 37.5% discount on each packet, then find how much profit he gets on selling 80 bread packets?

- (a) Rs 2750 (b) Rs 3200 (c) Rs 2500
(d) Rs 2700 (e) Rs 2400

Direction (96 – 100) : Read the data carefully and answer the questions.

A company is the producer of bottles and it used to sell bottles through distributor on a condition that on selling the stock of every 50 bottles, he will get Rs. 1000 as

commission. The distributor is responsible to sell all those bottles to retailers. If he marks the bottles at the price which is 30% above the production cost (cost price) and allows a discount of Y%. He sells total of 'X' bottles which is 40 less than total received stock by him. Total production price of whole stock of bottles received by him to sell to retailers is Rs. 7.8 lakhs. The commission received by distributor is Rs. 7000 and he made a profit of Rs 1.4 lakhs on selling the bottles.

96. What is value 'Y' ?

- (a) $9\frac{9}{13}\%$ (b) $7\frac{9}{13}\%$ (c) $5\frac{9}{13}\%$
(d) $8\frac{9}{13}\%$ (e) None of these

97. What will be ratio of Y : (X + 40)?

- (a) 10 : 511 (b) 10 : 503 (c) 10 : 513
(d) 10 : 507 (e) 10 : 509

98. Instead of 'Y' employee allow 10% discount on one bottle, then percentage profit of distributor?

- (a) 17% (b) 15% (c) 12%
(d) 10% (e) 19%

99. If company added given commission in cost price and he give stock of (X + 450) bottles to another distributor who sold all stock, then find new cost price of one bottle?

- (a) 2200 Rs. (b) 2020 Rs. (c) 2040 Rs.
(d) 2060 Rs. (e) 2080 Rs.

100. If distributor allowed two successive discounts of 5% and 12.5% on marked price, then find the profit made by distributor on selling of one bottle?

- (a) 161.25 Rs. (b) 162.25 Rs. (c) 172.25 Rs.
(d) 176.25 Rs. (e) 174.25 Rs.

ENGLISH LANGUAGE

Directions (101-105): Read the following passage and answer the questions as directed.

Artificial intelligence (AI) is all the rage these days. A recent article noted that 'robots' — shorthand for AI in the tabloids — will be able to write a fiction bestseller within 50 years. I suppose that would be shocking to me as a novelist if most fiction bestsellers were not already being written by 'robots'. Or so one feels, keeping publishing and other vogues in mind: a bit of this, a bit of that, a dash of something else, and voila you have a bestseller! In that sense, perhaps the rise of AI will make us reconsider what we mean by human intelligence. This discussion has been neglected for far too long. Take my field: literature. The Chinese company, Cheers Publishing, lately offered a collection of poems written by a computer program. So, are poets, generally considered to be suicidal in any case,

jumping off the cliffs in droves as a consequence? Well, this is a selection from one of the AI poems I found online: "The rain is blowing through the sea / A bird in the sky / A night of light and calm / Sunlight / Now in the sky / Cool heart / The savage north wind / When I found a new world."

Yes, there are aspiring poets — and sometimes established ones — who write like this, connecting words centripetally or centrifugally to create an effect. I think they should have been pushed off literary cliffs a long time ago. Because this is not poetry; this is just the technique of assembling words like poetry. There is a difference between the intelligence required to write poetry and the skills required to write it. That poetic intelligence is lost without the required poetic skills, but the skills on their own do not **(A)suffice** either. The fact that lines like this, written by AI, can be considered poetry does not reflect on the intelligence of AI. It reflects

on the intelligence of those readers, writers, critics, editors, publishers and academics who have not yet distinguished between gimmickry and mimicry on the one side and the actual freshness of a chiselled line on the other. But this is a small example. Surely, AI might also make **(B)**, including that of considering something like IQ to be a sufficient index of human mental capacity! Because if we think that AI can replace human intelligence, then we are simply not thinking hard enough.

(C) One of the major **(1) activity** here is that of considering **(2) intelligence** to be something **(3) different** from and raised above the **(4) failures** of living. This leads to the misconception that intelligence can be **(D)**..... to something else — say, a robot — without becoming something else. Human intelligence cannot be passed on to something else: What is “passed on” is always a different kind of ‘intelligence’. Even the arguments that AI — or, as in the past, robots — can enable human beings to lead a gloriously workless existence is based on a similar misconception. Because human intelligence is embedded in human existence, ‘work’ as human activity in the world is not something human beings can do without.

101. Which of the following words can replace the word given in bold in (A) without changing the meaning of the sentence?

- (a) disperse (b) squander (c) dissipate
(d) serve (e) spread

102. Out of the following options which option does support the statement “**There is a difference between the intelligence required to write poetry and the skills required to write it,**” made by the author in the paragraph?

- (a) There are aspiring poets who write like this, connecting words centripetally or centrifugally to create an effect, this is not poetry; this is just the technique of assembling words like poetry.
(b) that would be shocking to me as a novelist if most fiction bestsellers were not already being written by ‘robots.’
(c) The lines written by AI considered as poetry does not reflect on the intelligence of AI.
(d) Both (b) and (c)
(e) None of the above

103. Which of the following phrases should fill the blank given in (B) to make it grammatically and contextually correct and meaningful?

- (a) has always been a mistake to expect him to ‘solve’ problems without human effort
(b) us discover our basic lack of intelligence in other areas
(c) often atheistic fans of AI who believe that it is ‘The solution’ are making the same mistake

- (d) has had a crucial role in shaping cognitive capacity and brain evolution
(e) None of the Above

104. The sentence given in (C) has four words given in bold. Amongst given bolded words, which of the followings must replace each other to make the sentence contextually correct and meaningful.

- (a) 2-4 (b) 2-3 (c) 1-4
(d) 3-4 (e) 1-3

105. Which of the following words given in the options should come at the place marked as ‘D’ in the above paragraph to make it grammatically and contextually meaningful and correct? Also, the word should fill the two sentences given below to make them contextually correct and meaningful?

- (i) They aim to prevent women from being to a secondary role.
(ii) United were to division two.
(a) forecasted (b) relegated (c) researched
(d) published (e) vanished

Directions (106-110): Read the following passage and answer the questions as directed.

We expect individuals **(I)** to take charge of their lives, to assume responsibility for their decisions. But when individuals group together, a problem arises. Groups can’t take charge of themselves, nor can every member simultaneously take charge of the entire group. Someone from the group is invariably asked to show the way, to become the primary agent, to lead. Yet, not everyone who occupies high office is a leader. A person who merely **(II)** or has management skills is not a leader. Moreover, not everyone who assumes the role of a leader is able to play it well. What qualities then make for a leader? Which **(A) virtues** are required to provide ethical leadership? I suppose there is little new **(III)**. But let me still give it a shot in the hope that it serves as a good reminder. And in the election year, why not focus on qualities necessary for political leadership?

If a person is chosen to lead the group, it is her responsibility to take care of the interest of each person of the entire group. This often **(B)**..... putting collective interest before her own interest or that of her preferred group. For this to happen, she must first be able to identify the common good, to have a grasp of what is acceptable to all, to have an inclusive vision. This requires an infinite capacity to listen to others, to learn from them, to have the intellectual ability to critically examine and evaluate what everyone wants and needs, and then put them all together. *Since this intellectual formulation can only be the first step, an estimate of the real quality of a decision is not known until it is implemented;***(C)**.....*This requires him to*

keep his ear to the ground, listen patiently to criticism to judge if his policies are working. He must not be defensive when criticised, or evade uncomfortable questions, but face criticism head on and be able to sift the wheat from the chaff. It also necessitates that a leader show flexibility and an ability for course correction by admitting mistakes. He should know that one's stature is not diminished by accepting fallibility. A leader must be a good communicator, and that is greatly helped if he has a way with words. But all the rhetorical flourish is of no avail if the speech lacks sincerity and conviction. Finally, a good leader knows that nothing can be achieved without the collective expertise and wisdom of a support team.

It is equally tempting to pick those one has taken a fancy to, who are personally loyal. But such people often lack spine. **(D)** *Fearful people with poor ability can never offer good advice to their leader and could allow bad decisions to prevail that push the country down a ruinous path.* Besides, they are often among the first to backstab the leader once out of power. Thus, personal likes and dislikes too must be set aside.

106. Which of the following words can replace the word given in bold in (A) without changing the meaning of the sentence?

- (a) gentry (b) Fortes (c) rage
(d) tantrum (e) rampage

107. In the Question below three phrases are given which must be filled in the positions given in I, II and III in the passage. From the options given below, choose the correct order of phrases that should be filled in the positions given.

- A. one can say on this matter
B. to be their own leaders
C. coordinates the actions of others

- (a) ABC (b) CAB (c) BCA
(d) BAC (e) ACB

108. Which of the following words should fill in the blank in (B) to make a contextually correct and meaningful sentence?

- (a) arouse (b) entails (c) sheers
(d) garners (e) evokes

109. Two sentences are given in italics on both sides of C. Which of the following statements can come in between the two sentences in place of C so as to maintain the continuity of the paragraph?

- (a) this means that our leaders must owe supreme loyalty to nothing
(b) understand the purpose of the job, can speak their mind, and are able, without fear
(c) such persons can be identified only by one who possesses these qualities
(d) Its deficiencies begin to show up only when put into practice.
(e) None of the above

110. In the passage given, a sentence D is given in Italics. There may or may not be an error in one part of the sentence. Choose the part which has an error in it as your answer.

- (a) Fearful people with poor ability can
(b) never offer good advice to their leader
(c) and could allow bad decisions to prevail
(d) that push the country down a ruinous path.
(e) no error

Directions (111-115): Read the following passage and answer the questions as directed.

Start-ups troubled by the so-called angel tax may soon receive some **(A)**..... from the government. On Monday, the Centre set up a five-member working committee to look into revising the **(B) norms** of the angel tax imposed on start-ups. The tax, which was first introduced in 2012 to curb money-laundering through the **(i)** at bloated prices, has caused a lot of anguish among start-up investors in the country. Start-up owners have complained that income tax officials have asked many start-ups to cough up money when they try to attract capital into their entities by issuing new shares. For its part, the IT department fears that start-ups may be used as convenient tools to launder illegally acquired money, so a tax on investments beyond a certain threshold is **(ii)**. **(C)** But while the **(1) unintended** of such an angel tax may be **(2) benefits**, the arbitrary nature of it means the cost of **(3) intent** consequences could be larger than the supposed **(4) justifiable**. In trying to curb money-laundering, Section 56(2)(viib) of the Indian Income Tax Act, 1961 gives income tax officials a free hand to harass even genuine start-ups looking to raise investments for their growth. Under the Act, the IT department is free to arbitrarily decide the fair value of a company's share and tax start-ups if the price at which their new shares are sold to investors is higher than the fair value of these shares. The broad-brush tax on all investments means an unnecessary cost is **(iii)** community simply because of the lack of better means at the government's disposal to tackle black money.

The committee set up by the government will, among other things, consider raising the threshold beyond which new investments into start-ups will be taxed. It is expected that start-ups with aggregate paid-up share capital and share premium of less than ₹25 crore, against the previous threshold of only ₹10 crore, will not be taxed while attracting new investment. This would definitely make life easier to a certain extent for angel investors and start-ups. But it will not address the real problem with the angel tax, which has to do with the unbridled power that it vests in the hands of the income tax authorities. Investors, foreign or domestic, may become wary of investing in new ideas when they are taxed while risking money on untested ventures. So the government should look to withdraw the angel tax and focus instead on building the capability to better identify and rein in illegal wealth. Otherwise it risks killing the nascent start-up ecosystem in the country.

111. Which of the following words should fill in the blank in (A) to make a contextually correct and meaningful sentence?

- (a) collusion (b) commotion (c) concession
(d) digression (e) fluctuation

112. Which of the following words can replace the word given in bold in (B) without changing the meaning of the sentence?

- (a) Measures (b) Deviations (c) Regulations
(d) Standards (e) Abbreviations

113. In the question below three phrases are given which must be filled in the positions given in i, ii and iii in the passage. From the options given below, choose the correct order of phrases that should be filled in the positions given.

- A. necessary to deter such shady operations
B. sale of shares of private unlisted companies
C. imposed on the wider start-up

- (a) ABC (b) CAB (c) BCA
(d) BAC (e) ACB

114. The sentence given in C has four words given in bold. Amongst given bolded words, which of the followings must replace each other to make the sentence contextually correct and meaningful.

- (a) 2-4 (b) 1-3 (c) 1-4
(d) 3-4 (e) Both (a) and (b)

115. As per the information given in the passage, out of the following options which option does best explain the term "angel investor"?

- (a) Angel investors are those who don't look for the low risk investment that might yield a more reliable return, because those startups fail too.
(b) Angel investors are those who own shares in the business, not revenue, and not profits.
(c) An angel investor is an affluent individual who provides capital for a business start-up.
(d) Angel investors are often retired entrepreneurs or executives, who may be interested in angel investing for reasons that go beyond pure monetary return.
(e) None of the above

Directions (116-120): In each of the following questions a grammatically correct and meaningful sentence is given with four words given in bold in each. Which of the following words should replace each other to form a meaningful and grammatically correct sentence. The meaning can be different from the one in question.

116. The Central government is unable to provide the funds while Kerala has been stopped in its (A) **tracks** from seeking resources from (B) **abroad**, either from the Kerala (c) **diaspora** or from friendly (D) **overseas** governments.

- (a) C-B (b) A-D (c) B-D
(d) A-B (e) No Interchange Possible

117. Immediately the sympathies of the

- (A) **police** and
(B) **magistrates**, some sections of the media and
(C) **public** opinion swing towards the
(D) **perpetrator**, not the victim.
(a) A-C (b) A-B (c) B-D
(d) B-A (e) No Interchange Possible

118. It is (A) **imperative** that there be course corrections; otherwise the (B) **exercise** runs the risk of fueling a (C) **parallel** movement against the state by those being (D) **victimised** now.

- (a) A-D (b) A-C (c) A-B
(d) B-D (e) No interchange is possible

119. The tsunami of 2004 and the (A) **threat** of piracy in the Indian Ocean provided India an (B) **opportunity** to test its new posture. Everybody was (C) **grateful**, but it made no difference to India's claim to (D) **permanent** membership.

- (a) No interchange possible
(b) A-B
(c) B-C
(d) B-D
(e) A-D

120. The government has (A) **tampered** with institutions by appointing its own people to positions of (B) **authority**, and by using the (C) **Enforcement Directorate**, Income Tax authorities, the Central Bureau of Investigation and the (D) **police** as bulldozers to flatten out any site of opposition.

- (a) A-C (b) B-D (c) C-D and A-B
(d) C-D (e) A-D

Directions (121-125): In each of the following questions a sentence is given with a word given in BOLD. Corresponding to each question three sentences are given with the use of the same word. From the options choose the sentences which give a DIFFERENT MEANING for the word used in the sentence above. The meaning used in the sentence(s) should be different from the one used in the main sentence.

121. The leaders of our ruling dispensation seem to have no respect for the rule of law, nor for the rules that regulate speech in public spaces.

- (I) Because the soldier had saved his entire unit, the president gave him **dispensation** for his wartime crimes.
(II) Scholarship is conveyed to a wider audience than under the old **dispensation**.
(III) At the close of the Jubilee this **dispensation** was extended to all who had expired on the way to Rome.
(a) Only I (b) Only II (c) Only III
(d) Both I and II (e) Both I and III

122. This is the latest instalment in the rather **sordid** story of institutional decay in India, overseen by the leaders of the Bharatiya Janata Party (BJP).

- (I) He remained, however, uncertain how to do so without immersing himself further in Lydia Larkin's **sordid** activities.
- (II) The overcrowded housing conditions were **sordid** and degrading.
- (III) Everyone knows of the bank's manager **sordid** plan to steal the money.
- (a) Only III (b) Only II (c) Both I and II
(d) Only I (e) Both II and III

123. Competitive federalism, in the context of interaction with foreign countries, **promoted** by Prime Minister Narendra Modi, has proved to be a double-edged sword.

- (I) In 1761 he was **promoted** to be member of council, under the presidency of Mr Vansittart, who had been introduced by Clive
- (II) The industry was actively **promoted** by a Frenchman named Jumel, in the service of Mehemet Ali, from 1820 onwards with great success.
- (III) He actively **promoted** the incorporation of the left bank of the Rhine with France.
- (a) Only III
(b) Both I and II
(c) Only I
(d) Both II and III
(e) All of the above

124. When India's aspiration for permanent membership of the UN Security Council met with strong **resistance**, New Delhi hit upon the idea of forcing a vote in the General Assembly.

- (I) The president's healthcare plan drew a lot of **resistance** from his political rivals.
- (II) The employees' showed their **resistance** to the salary cuts by picketing outside the factory.
- (III) He also investigated electrical endosmosis and the electrical **resistance** of electrolytes.
- (a) Only II
(b) Both I and II
(c) Only II
(d) Only III
(e) None of the above

125. The constitutional framework does not provide thick or **substantive** conceptions of how we shall think, and in what we shall believe.

- (I) Why should I take the herb when there is no **substantive** proof it will ease my pain
- (II) Not only do we hear of these varieties of practice, but also of the laying on of hands; together with prayer as a **substantive** rite unconnected with baptism.

(III) They said no **substantive** objections to the agreement have been raised

- (a) Only I
(b) Only II
(c) Both II and III
(d) All of the above
(e) None of the above

Directions (126-130): In the questions given below a sentence is given with two blanks in each. Corresponding to each question two columns are given with three words in each column. Which combination of words from the two columns will perfectly fit into the blanks to make the sentence contextually correct and meaningful.

126. Mutual political suspicion and a lack of of the complexities of the international situation have brought about a confrontation. The Chief Minister may have even made and tactical misjudgments.

Column I

- A. Appreciation
B. Acknowledgement
C. Plethora
(a) C-E (b) A-F
(d) B-D (e) C-D

Column II

- D. Acceptable
E. Diplomatic
F. Strategic
(c) B-F and A-E

127. The investigation also that another pilot flying as Staff On Duty entered the cockpit after pressing the cockpit buzzer several times. The pilot in command that he allowed the SOD inside the cockpit because the buzzer was distracting.

Column I

- A. Divulged
B. Rejected
C. Communicated
(a) C-D (b) B-E
(d) A-F (e) B-E

Column II

- D. Advanced
E. Submitted
F. Recommended
(c) A-E

128. A committee, chaired by Union Environment Minister Harsh Vardhan, has wildlife clearance to the Mumbai-Ahmedabad high-speed train corridor that upon a flamingo sanctuary and the Sanjay Gandhi National Park, home to leopards, in Mumbai.

Column I

- A. Alienated
B. Estranged
C. Accorded
(a) A-F (b) B-D and A-E
(d) C-D (e) B-E

Column II

- D. Encroaches
E. Repelled
F. Admonish
(c) C-F

129. The CBI says there was no proper response to the earlier it sent to the Police Commissioner, and alleges that he could have destroyed evidence that was initially gathered by the Special Investigation Team that he had in the initial stage of the probe.

Column I

- A. Declaration
B. Summonses
C. Command
(a) A-D (b) C-E
(d) B-F and C-E (e) B-F and B-D

Column II

- D. Supervised
E. Govern
F. Administered
(c) B-E

130. Following Taylor, we can rightly wonder why political power should be exercised, implemented and without rules. Assertions of political power affect our interests and our projects.

Column I

A. fickle
B. executed
C. finished

(a) A-E
(d) B-E
(b) C-D
(e) C-F

Column II

D. sabotage
E. adversely
F. negatively

(c) A-C and B-E

Directions (131-135): In the following questions, a grammatically correct and meaningful sentence is given which is divided into five parts, (A),(B),(C),(D) and (E). Part (E) is fixed and highlighted in BOLD. You have to arrange the other four parts to make a contextually and grammatically meaningful sentence (the meaning can be different from the one given in the question). If no such rearrangement is possible mark (e) as your answer i.e. 'No rearrangement is possible'.

131. of formal and informal rules, assure (A)/according to some norms that enable as well as (B) / institutions, as the embodiment (C) / citizens that the government exercises power (D) /**regulate state capacity (E).**

(a) ACBDE (b) CADBE (c) DABCE
(d) BACDE (e) BDCAE

132. British rule, secularism was an article of faith across(A)/ the ideological spectrum, though only in a limited definition as (B) / the community-based template of political competition introduced under (C) / in the aftermath of Partition, seen as the outcome of (D)/**a seamless sense of national identity. (E)**

(a) BADA E (b) CBD A E (c) ACBDE
(d) DCABE (e) CABDE

133. the exclusion was not based on gender or sex, but on religious (A) / by veteran lawyer K. Parasaran, sought a (B) / the Nair Service Society, represented (C)/ review of the verdict on the ground that (D) /**faith in and character of the deity. (E)**

(a) DACBE (b) ABDCE (c) CBDAE
(d) BCDAE (e) CBADE

134. represented by Solicitor General Tushar Mehta, (A) / while Mr. Venugopal said he did not (B) /on Mr. Bhushan, the government, (C)/ want the court to impose any punishment (D) /**was of the opposite opinion. (E)**

(a) DABCE (b) BDCAE (c) CDABE
(d) ABCDE (e) CDBAE

135. deposit-taking activities altogether, by making them an offence (A) /the principle is that the Bill would ban unregulated (B) / framework that only comes into effect (C) / ex-ante rather than the existing legislative-cum-regulatory (D) /**ex-post with considerable time lags. (E)**

(a) ADCBE (b) BACDE (c) CDBAE
(d) DABCE (e) BADCE

Directions (136-140): In the questions given below five words are given in which four of them have a similar meaning and one word is the antonym for the other four words. Choose the word, opposite in meaning to the other four, as your answer.

136. (a) incommensurate
(b) inordinate
(c) unsymmetrical
(d) proportionate
(e) lopsided

137. (a) Dissipate (b) Lavish (c) Splurge
(d) Squander (e) Retrieve

138. (a) fractious (b) affable (c) grouchy
(d) bad-tempered (e) shrewish

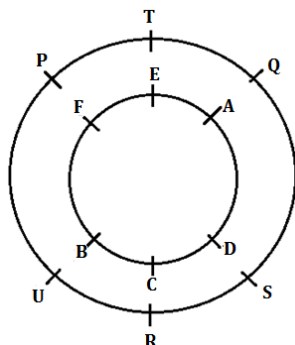
139. (a) conciseness (b) eloquence (c) rhetoric
(d) magniloquence (e) blarney

140. (a) eradicate (b) exterminate (c) abolish
(d) ratify (e) quash

Solutions

REASONING ABILITY

Direction (1-4):



1. (d); 2. (e); 3. (a);
 4. (e);
 5. (a);

Floors	Persons
6.	D
5.	F
4.	B
3.	A
2.	C
1.	E

6. (c); ALIGNED, DEALING

Directions (7-9):

In the given Input-Output question the logic is—
 For step I- All the digits of the given numbers are arranged in ascending order within the numbers.

For Step II- All the numbers obtained in step I are arranged in ascending order from the left end.

For Step III- First and last digits of the numbers are omitted.

For step IV- The digits of the numbers obtained in step III are added.

INPUT— 3846 9213 8273 7341 5218 3285 6925 4758

STEP I- 3468 1239 2378 1347 1258 2358 2569 4578

STEP II- 1239 1258 1347 2358 2378 2569 3468 4578

STEP III- 23 25 34 35 37 56 46 57

STEP IV- 5 7 7 8 10 11 10 12

7. (c); 8. (c); 9. (d);

10. (c); Statement I is neutral as it is nowhere related to the recruitment process. While II strengthen the statement as the company is taking this step to strengthen the recruitment process.

Directions (11-14):

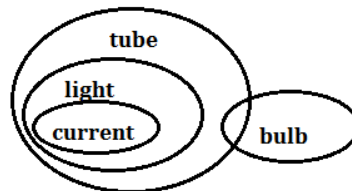
Box	Chocolate
Q	175
S	250
T	190
U	210
P	280
R	119

11. (a); 12. (b); 13. (d);

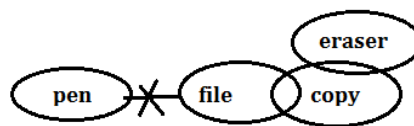
14. (d);

Directions (15-17):

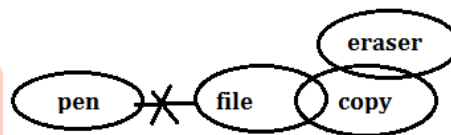
15. (c);



16. (d);



17. (d);



Direction (18-21):

Years	Ages	Persons	Colour
1946	73	M	White
1958	61	L	Red
1963	56	K	Yellow
1971	48	N	Orange
1994	25	J	Pink
2006	13	O	Black

18. (d); 19. (c); 20. (d);

21. (a);

22. (c);

N	Q	L/O	M	O/L	P
---	---	-----	---	-----	---

23. (d); 24. (c);

Direction (25-28):

Months↓/Date→	5th	12th	21st
March (31)	K	C	H
May (31)	D	F	L
September (30)	J	E	B
November (30)	A	M	G

25. (a); 26. (d); 27. (d);

28. (d);

29. (e);

0	1	2	3	4	5	6	7	8	9
A	A	B	A	B	C	A	B	C	D

30. (d); I. MBEKTYD - BDEKMTY
 II. GPNAQUS - AGNPQSU
 III. XCJRHO - CHJORX
31. (d); Only Statement III is assumed from the given statement. As from given statement it can be assumed that the extra class will help the students to score well.
32. (b); Both II and III can be the reason for the average salary remain same.
33. (e); Both III and IV can be inferred from the given statement as it is clear that the turnover is below 32.5 million currently and 35% of 1.5 lakh i.e. 52500 newly hired employee in new unit the turnover will reach to 32.5 million.

Direction (34-37):

Persons
A
Z
D
H
B
Q
G
Y
R
L

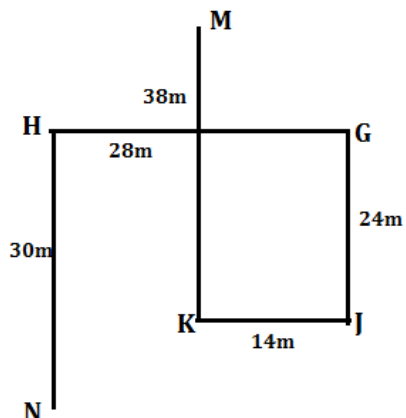
Amount earn by them-

$$B(10000) > L(8500) > A(7000) > Z(5000) = H > R(4500) = Q = G > D(3000) = Y$$

34. (b); 35. (b); 36. (a);

37. (a);

Direction (38-40):



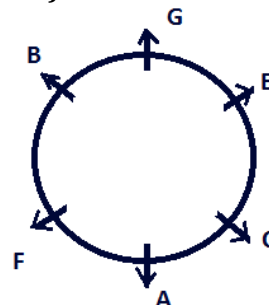
38. (e); 39. (b); 40. (c);

Directions (41-45):

41. (b); Condition (i) and (iii) is applied = AMGFIS = '6@27@6'.
42. (d); Condition (ii) and (iv) is applied = PUGRLE = '212#2&'.
43. (a); Condition (ii) and (v) is applied = UAIMUI = '@&9@μ&'.
44. (e); Condition (iv) and (v) is applied = MJGLBF = '©2\$272'.
45. (c); Condition (iv) and (v) is applied = GFPQMB = '7%3%5%'.
46. (c); In the above question we have to find the inference of the above statement.
 For I-This cannot be the inference because if a person does not have Aadhar, he/she will not get government help in treatment but can take treatment of TB without Aadhar.
 For II-This could be the inference as mentioned in the given statement that patients need Aadhar card to get benefits under government scheme.
 For III-This also could be the inference because it is clear from the given statement that to get benefits of the scheme verification of Aadhar will be required.
 For IV-This is not the inference of the given statement because this statement states that cases of TB patients increased in India now which is not directly related to the statement.

47. (c); For I- This argument does not holds strong because this initiative is for girls to get benefited initially but it is not like that education will be free for everyone.
 For II-This argument also holds strong because a law/scheme or bill should not be for any particular gender but it should be for the one who really need it.
 For III-This is also strong because gender should not be the criterion for the free education. It is the poor who should get the benefits.

Directions (48-50):



$$B > G > A > F > C > E$$

24yrs 20 yrs

48. (e); 49. (d); 50. (b);

QUANTITATIVE APTITUDE

- 51. (a);** Efficiency ratio of A and B = 2 : 1
 QUANTITY 1: Time taken by B = $\frac{3}{1} \times \frac{15}{2}$
 = $\frac{45}{2}$ days
 QUANTITY 2: Efficiency of C = $2 \times \frac{3}{2} = 3$
 \therefore Time taken by C = $\frac{45}{2} \times \frac{1}{3} = \frac{15}{2}$ days
 QUANTITY 1 > QUANTITY 2
- 52. (c);** Quantity 1: Let roots are a_1, a_2 then $a_1 a_2 = \frac{-5}{2}$
 $\Rightarrow a_2 = \frac{-5}{2}$ ($\because a_1 = 1$)
 Quantity 2: 2.5
 \therefore Quantity 2 > Quantity 1
- 53. (a);** Quantity 1:
 Favorable cases
 = (1, 4), (2, 3), (3, 2), (4, 1), (5, 5), (4, 6), (6, 4)
 = 7
 \therefore Required prob. = $\frac{7}{36}$
 Quantity 2: $\frac{1}{6}$
 Quantity 1 > Quantity 2
- 54. (a);** D + h = 28 m.
 Quantity 1 : $7x = 28$
 $x = 4$
 $r = 8$ m
 $h = 12$ m
 Curved surface area of cylinder = $2\pi \times 8 \times 12$
 = $2\pi \times 96$ m²
 Quantity 2:
 $h = 10$ m
 Radius = $\frac{28-10}{2} = 9$ m
 Curved surface area of cylinder = $2\pi \times 9 \times 10$
 = $2\pi \times 90$ m²
 Quantity 1 > Quantity 2
- 55. (e);** There will be two numbers 73 and 37 whose product of digits is 21
 So if we take 73 then
 Quantity 1 > Quantity 2
 And if we take 37 then,
 Quantity 2 > Quantity 1
 So no relation can be established.
- 56. (c);** Let initially milk and water in container B is 3x liter and x liter respectively
 Now,
 $3x + \frac{8}{9} \times 18 - x - \frac{1}{9} \times 18 = 30$
 $3x + 16 - x - 2 = 30$
 $x = 8$
 Initial quantity in container B = $8(3 + 1)$
 = 32 Liter
- 57. (c);** Total runs scored by team B = $30 \times 4.5 + 20 \times 5.5 - 10 = 235$
 \therefore Required answer = $\frac{235}{50} = 4.7$
- 58. (b);** Total balls = 40
 Red balls = 18
 Let green balls are x
 Then, $\frac{18}{40} \times \frac{x}{39} = \frac{3}{26} \Rightarrow x = 10$
 \therefore No. of blue balls = $40 - 28 = 12$
- 59. (e);** Ratio of efficiency of A to B is 3 : 2
 Let, In 8 days they complete = $(3 + 2) \times 8 = 40$ units
 So, total work = $40 \times \frac{12}{5}$ units
 Time taken by B alone to complete whole work
 = $\frac{40 \times 12}{5 \times 2} = 48$ days
- 60. (d);** Total employee working in A in year 2000
 = $64 \times \frac{100}{32} = 200$
 Total employee working in A at the end of 2002
 = $(200 - 20 + 102 - 32 + 78 - 24) = 304$
 Total employee working in B at the end of 2002
 = $(96 - 18 + 72 - 16) = 134$
 Required percentage = $\frac{134}{304} \times 100$
 = $44.07 \approx 44\%$
- 61. (b);** Let total employee who left B and C in the year 2002 be 7a and 9a respectively
 ATQ -
 $172 + 84 - 36 + 108 - 9a + 124 - 28 = 406$
 $9a = 424 - 406$
 $9a = 18$
 $a = 2$
 Employee left B in 2002 = 14
 So, total employee working in B at the end of 2002 = $160 + 96 - 18 + 72 - 14 = 296$
- 62. (a);** Total employee working in B at the end of 2000
 = $220 - 28 + 32 = 224$
 Let total employee left B in 2002 & 2003 together be 6x & 7x respectively
 ATQ -
 $224 + 96 - 18 + 72 - 6x + 144 - 7x = 466$
 $13x = 518 - 466$
 $13x = 52$
 So, total 52 employees left B in 2002 & 2003 together.
- 63. (c);** Total employee left A in the given three years
 = $21 \times 3 = 63$
 Total employee left A in 2001 & 2003 together
 = $63 - 24 = 39$

$$\begin{aligned} \text{Total employee left A in 2001} &= 39 \times \frac{7}{13} = 21 \\ \text{Total employee working in A at the end of 2002} \\ &= 102 - 21 + 78 - 24 = 135 \\ \text{Required percentage} &= \frac{135-108}{108} \times 100 \\ &= \frac{27}{108} \times 100 = 25\% \end{aligned}$$

64. (e); Total employee left C in the year 2002 = $24 \times \frac{4}{3} = 32$
 Total employee left B in the year 2002 = $32 \times \frac{5}{8} = 20$
 Total employee working in A at the end of 2002 = $102 - 22 + 78 - 24 = 134$
 Total employee working in B at the end of 2002 = $96 - 18 + 72 - 20 = 130$
 Total employee working in C at the end of 2002 = $84 - 36 + 108 - 32 = 124$
 Required ratio = $130 : 124 : 134 = 65 : 62 : 67$

65. (a); Total employee left A in year 2001 = $36 \times \frac{1}{3} = 12$
 Total employee left C in year 2002 = $(36 - 12) \times \frac{2}{3} = 16$
 Total employee working in A at the end of 2002 = $102 - 12 + 78 - 24 = 144$
 Total employee working in C at the end of 2003 = $84 - 36 + 108 - 16 + 124 - 28 = 236$
 Required difference = $236 - 144 = 92$

66. (a); I. $2x^2 + 11x + 15 = 0$
 $\Rightarrow 2x^2 + 6x + 5x + 15 = 0$
 $\Rightarrow 2x(x + 3) + 5(x + 3) = 0$
 $\Rightarrow (x + 3)(2x + 5) = 0$
 $\Rightarrow x = -3, -5/2$
II. $4y^2 + 13y + 9 = 0$
 $\Rightarrow 4y^2 + 4y + 9y + 9 = 0$
 $(y + 1)(4y + 9) = 0$
 $\Rightarrow y = -1, -9/4$
 $y > x$

67. (e); I. $x^2 - 36x + 324 = 0$
 $\Rightarrow x^2 - 18x - 18x + 324 = 0$
 $\Rightarrow (x - 18)^2 = 0$
 $\Rightarrow x = 18, 18$
II. $y^2 - 35y + 216 = 0$
 $\Rightarrow y^2 - 27y - 8y + 216 = 0$
 $\Rightarrow (y - 27)(y - 8) = 0$
 $\Rightarrow y = 27, 8$
 No relation

68. (c); I. $x = (216)^{1/3} \Rightarrow x = 6$
II. $y^2 = 6 \Rightarrow y = \pm\sqrt{6}$
 $x > y$

69. (a); I. $2x^2 + 17x + 35 = 0$
 $2x^2 + 10x + 7x + 35 = 0$
 $2x(x + 5) + 7(x + 5) = 0$
 $(2x + 7)(x + 5) = 0$
 $x = -\frac{7}{2}, -5$

II. $3y^2 + 17y + 24 = 0$
 $3y^2 + 9y + 8y + 24 = 0$
 $3y(y + 3) + 8(y + 3) = 0$
 $(y + 3)(3y + 8) = 0$
 $y = -3, -\frac{8}{3}$
 $y > x$

70. (d); I. $x^2 + 72 = 108$
 $x^2 = 108 - 72 = 36$
 $x = \pm 6$
II. $y^3 + 581 = 365$
 $y^3 = -216$
 $y = -6$
 $x \geq y$

71. (b); I. $8x^2 + 58x + 39 = 0$
 $8x^2 + 52x + 6x + 39 = 0$
 $4x(2x + 13) + 3(2x + 13) = 0$
 $x = (-13)/2, (-3)/4$
II. $8y^2 - 14y - 15 = 0$
 $8y^2 - 20y + 6y - 15 = 0$
 $4y(2y - 5) + 3(2y - 5) = 0$
 $y = 5/2, (-3)/4$
 $y \geq x$

72. (b); Total unsubscribed viewers from B = $3000 \times \frac{15}{100} - 250 = 200$
 Total unsubscribed viewers from E = $3000 \times \frac{20}{100} - 180 = 420$
 Total unsubscribed viewers from C = $3000 \times \frac{28}{100} - 440 = 400$
 Required percentage = $\frac{(200+420)-400}{400} \times 100 = \frac{220}{400} \times 100 = 55\%$

73. (b); Let total female unsubscribed viewers in D be $3x$
 So, total male unsubscribed viewers in D will be $5x$
 Total male unsubscribed viewers in D = $(3000 \times \frac{25}{100} - 350) \times \frac{5x}{8x} = 250$
 Total unsubscribed viewers in A & C = $(3000 \times \frac{12}{100} - 220) + (3000 \times \frac{28}{100} - 440) = 140 + 400 = 540$
 Required ratio = $\frac{250}{540} = 25 : 54$

74. (e); Total unsubscribed viewers from B = $3000 \times \frac{15}{100} - 250 = 200$
 Total unsubscribed viewers from C = $3000 \times \frac{28}{100} - 440 = 400$
 Total unsubscribed viewers in B & C and subscribed viewers in E = $200 + 400 + 180 = 780$
 Required central angle = $\frac{780}{3600} \times 360 = 93.6^\circ$

- 75. (d);** Total female viewers in village C
 $= 3000 \times \frac{28}{100} \times \frac{325}{7} \times \frac{1}{100} = 390$
 Total female unsubscribed viewers in village C
 $= 390 \times \frac{7}{13} = 210$
 Total male unsubscribed viewers in village C
 $= (3000 \times \frac{28}{100} - 440) - 210 = 190$
- 76. (b);** Total subscribed viewers from village F
 $= (3000 \times \frac{12}{100} - 220) \times \frac{120}{100} = 168$
 Total unsubscribed viewers from village F
 $= 168 \times \frac{4}{3} = 224$
 Total unsubscribed viewers from C
 $= 3000 \times \frac{28}{100} - 440 = 400$
 Required percentage $= \frac{400 - 224}{400} \times 100$
 $= \frac{176}{400} \times 100 = 44\%$
- 77. (c);** Total viewers from all the five village in 2018
 $= 3000 \times \frac{140}{100} = 4200$
 Total subscribed viewers from A in 2018
 $= 220 \times 1.25 = 275$
 Total subscribed viewers from B in 2018
 $= 250 \times 1.2 = 300$
 Total subscribed viewers from D in 2018
 $= 350 \times 1.14 = 399$
 Total subscribed viewers from E in 2018
 $= 180 \times 1.1 = 198$
 Total subscribed viewers from C in 2018
 $= 1400 - (275 + 300 + 399 + 198) = 228$
 Total unsubscribed viewers from C in 2018
 $= 4200 \times \frac{28}{100} - 228 = 948$
- 78. (c);** Let rate of interest for both scheme be R%
 So,
 Amount after 3 years $= 8000 + \frac{8000 \times 3R}{100}$
 $= 8000 (1 + \frac{3R}{100}) = 80(100 + 3R)$
 And
 $80 (100 + 3R) = 9000 (1 + \frac{R}{100})^2$
 (from this R can be calculated)
 We don't have to solve complete question
 We can see that R can be calculated from
 $80 (100 + 3R) = 9000 (1 + \frac{R}{100})^2$
 Both the statements taken together are necessary to answer the questions
- 79. (d); From A -**
 One man $= \frac{3}{2}$ women
 Total work $= (\frac{3}{2} \times 4 + 18) \times 2.5 = 60$ units
 So, 12 women can complete the work $= \frac{60}{12}$
 $= 5$ days

From B -
 $(4m + 18w) \times 2.5 = (6m + 6w)4$
 $14m = 21w$
 One man = 1.5 woman
 Total work $= (4 \times 1.5 + 18) \times 2.5 = 60$ units
 So, 12 women can complete the work $= \frac{60}{12}$
 $= 5$ days
 So, Either statement A or statement B alone is sufficient to give answer of the question.

- 80. (d); From A -**
 Let speed of stream be 'y' km/hr
 $\frac{120}{22.5 - y} = 4 + \frac{120}{22.5 + y}$
 $y = 7.5$ km/hr
From B -
 Let speed of stream be 'a' km/hr
 $\frac{150}{22.5 + a} + \frac{150}{22.5 - a} = 15$
 $y = 7.5$ km/hr
 So. Either statement A or statement B alone is sufficient to give answer of the question.

- 81. (e); Form A -**
 Given, X & Y both are integer and both are multiple of 24 and X is 50% more than Y
 So, X & Y can be (72, 48), (216, 144) and so on

 So, data A alone not sufficient to give answer of the question
From B -
 Given, $\frac{X}{30}$ & $\frac{Y}{40}$ both are natural number
 But, we can not calculate the value of X & Y
From A & B -
 X & Y can be (720, 480), (2160, 1440) and so on

So, Statements A and B taken together are not sufficient to answer the question

- 82. (a);** Let students who take art and science be 4b & b respectively
 Total students who take commerce $= (2a + 16)$
 $-(4b + b) = (2a + 16 - 5b)$
From A -
 $4b - (2a + 16 - 5b) = 8$
 $-2a + 9b = 24$... (i)
 Also, $\frac{b}{(2a + 16)} = \frac{1}{8}$
 $-2a + 8b = 16$... (ii)
 $b = 8$
 Total students in class = 64
From B -
 $(2a + 16 - 5b) \times \frac{75}{100} = 4b$... (i)
 $6a + 48 - 15b = 16b$
 $31b = 6a + 48$
 $b = \frac{6a + 48}{31}$
 So, from statement I only.

- 83. (b);** Total boys take admission in college B & D together = $(10.5 \times \frac{64}{100} + 18 \times \frac{68}{100}) \times 1000$
 $= 6720 + 12240 = 18960$
 Total boys take admission in E
 $= 16 \times \frac{60}{100} \times 1000 = 9600$
 Required percentage = $\frac{18960-9600}{9600} \times 100$
 $= \frac{9360}{9600} \times 100 = 97.5\%$
- 84. (a);** Total girls appeared in exam from A
 $= 12000 \times \frac{44}{100} \times \frac{75}{100} = 3960$
 Total girls appeared in exam from C
 $= 9000 \times \frac{48}{100} \times \frac{80}{100} = 3456$
 Total boys appeared in exam from A & C together
 $= 17910 - (3960 + 3456) = 10494$
 Total boys appeared in exam from C
 $= 10494 - 6048 = 4446$
 Total boys who did not appear in exam from A
 $= 12000 \times \frac{56}{100} - 6048 = 672$
 Total boys did not appear in exam from C
 $= 9000 \times \frac{52}{100} - 4446 = 234$
 Required difference = $672 - 234 = 438$
- 85. (d);** Total boys taken admission in college A & B =
 $12000 \times \frac{56}{100} + 10500 \times \frac{64}{100}$
 $= 6720 + 6720 = 13440$
 Total girls taken admission in D & E together =
 $18000 \times \frac{32}{100} + 16000 \times \frac{40}{100}$
 $= 5760 + 6400 = 12160$
 Required ratio = $13440 : 12160 = 21 : 19$
- 86. (c);** Total girls taken admission in F
 $= 9000 \times \frac{48}{100} \times \frac{13}{8} = 7020$
 Total boys taken admission in college F
 $= 20580 - 16000 \times \frac{60}{100}$
 $= 20580 - 9600 = 10980$
 Required percentage = $\frac{7020}{(7020+10980)} \times 100$
 $= \frac{7020}{18000} \times 100 = 39\%$
- 87. (c);** Students taken admission in science stream from B = $10500 \times \frac{2}{7} = 3000$
 Students taken admission in commerce stream from B = $10500 \times \frac{1}{7} = 1500$
 Students taken admission in art stream from B = $10500 \times \frac{4}{7} = 6000$
 Total boys taken admission in art stream from college B = $6000 - 10500 \times \frac{36}{100} \times \frac{35}{100} = 4677$
 Total boys taken admission in science stream from college B = $3000 - 10500 \times \frac{36}{100} \times \frac{40}{100} = 1488$
 Required difference = $4677 - 1488 = 3189$

- 88. (a);** Total boys taken admission in college A
 $= 12000 \times \frac{56}{100} = 6720$
 Total boys taken admission in college B
 $= 10500 \times \frac{64}{100} = 6720$
 Total boys taken admission in college C
 $= 9000 \times \frac{52}{100} = 4680$
 Total boys taken admission in college D
 $= 18000 \times \frac{68}{100} = 12240$
 Total boys taken admission in college E
 $= 16000 \times \frac{60}{100} = 9600$
 Required ratio = $\frac{6720+6720+4680+12240+9600}{5}$
 $= \frac{39960}{5} = 7992$
- 89. (d);** Volume of the cylindrical ditch = $\pi r^2 h$
 $= \frac{22}{7} \times 7 \times 7 \times 2 = 308 \text{ m}^3$
 Area of remaining field = $(X - \pi r^2) \text{ m}^2$
 $= (X - 154) \text{ m}^2$
 ATQ -
 $(X - 154) \times 0.77 = 308$
 $(X - 154) = 400$
 $X = 554 \text{ m}^2$
- 90. (a);** Let man invested Rs. A
 And, after two years amount invested = $(A + \frac{A}{2})$
 $= \frac{3A}{2}$ Rs.
 Equivalent CI of two year at 10% p.a.
 $= 10 + 10 + \frac{10 \times 10}{2} = 21\%$
 ATQ -
 $A \times \frac{21}{100} + (A + \frac{21A}{100} + \frac{A}{2}) \times \frac{10}{100} = 457.2$
 $0.210A + 0.171A = 457.2$
 $0.381A = 457.2$
 $A = 1200$ Rs.
 Required amount = $1200 + 1200 \times \frac{15 \times 3}{100}$
 $= 1740$ Rs.
- 91. (d);** Investment ratio of A, B & C = $(4000 \times 6 + 3000 \times 9) : (5500 \times 6 + 4000 \times 9) : 4x \times 9$
 $= 51000 : 69000 : 36x$
 $= 8500 : 11500 : 6x$
 ATQ -
 $\frac{6x}{(20000+6x)} \times 12250 = 2250$
 $x = 750$
 investment of C = Rs 3000
- 92. (c);** Let length of train A be 'L' m and speed be 'V' m/s
 ATQ -
 $V = \frac{L}{8} \dots (i)$
 And, $V = \frac{L+180}{17} \dots (ii)$
 From (i) & (ii)

$$\frac{L}{8} = \frac{L+180}{17}$$

$$17L - 8L = 1440$$

$$L = 160 \text{ m}$$

$$\text{And } V = 20 \text{ m/s}$$

Let length of train B be 'S'

$$\text{So, } \frac{108}{18} \times 5 + 20 = \frac{160+S}{8}$$

$$S = 400 - 160$$

$$S = 240 \text{ m}$$

Let time taken by train B to cross platform P be t sec

$$\text{So, } \frac{108}{18} \times 5 = \frac{240+180}{t}$$

$$t = \frac{420}{30} = 14 \text{ sec}$$

93. (a); Let the selling price for each of the shopkeeper be Rs 100x

For 1st shopkeeper

$$\text{SP} = \text{Rs } 100x$$

$$\text{CP} = 100x \times \frac{75}{100} = \text{Rs } 75x$$

For 2nd shopkeeper

$$\text{SP} = \text{Rs } 100x$$

$$\text{CP} = 100x \times \frac{100}{125} = \text{Rs } 80x$$

ATQ,

$$\Rightarrow 25x - 20x = \text{Rs. } 175$$

$$\Rightarrow x = 35$$

$$\text{Sum of cost price} = \text{Rs } 5425$$

94. (b); Let the present age of Ayush be x yr.

$$\text{Present age of his son} = \frac{x-6}{4} \text{ yr}$$

$$\text{Present age of his daughter} = \left(\frac{x-6}{4} + 7\right) \text{ yr}$$

Present age of his wife

$$= (x + 10) - \left\{\left(\frac{x-6}{4} + 7\right)\right\} = \frac{3x+18}{4} \text{ yr}$$

ATQ

$$x + \frac{x-6}{4} + \left(\frac{x-6}{4} + 7\right) + \frac{3x+18}{4} = 121$$

$$x = 50 \text{ yr}$$

95. (d); Let cost price of each bread packet = a Rs.

So, marked price of each bread packet = 2.5a

And selling price of each bread packet = 2.5a

$$\times \frac{60}{100} = 1.5a$$

Given, $1.5a - a = 30$

$$a = 60 \text{ Rs.}$$

$$\text{New selling price} = 2.5a \times \frac{5}{8} = 1.5625a$$

$$\text{Selling price of one bread packet} = 1.5625 \times 60 = 93.75$$

$$\text{Required profit on selling 80 bread packets} = (93.75 - 60) \times 80 = 2700 \text{ Rs.}$$

S(95 - 100):

Given, Commission received by the distributor = 7000 Rs.

$$\text{So, the number of bottles sold by distributor} = \frac{7000}{1000} \times 50 = 350$$

Total number of bottles received by him in the whole stock to sell = 350 + 40 = 390

$$\text{Production cost of each bottle} = \frac{780000}{390} = 2000 \text{ Rs.}$$

$$\text{Marked price of each bottle} = 2000 \times 1.3 = 2600 \text{ Rs.}$$

$$\text{Total selling price of 350 bottles} = 350 \times 2000 + 140000 = 840000 \text{ Rs.}$$

$$\text{Selling price of each bottles} = \frac{840000}{350} = 2400 \text{ Rs.}$$

$$\text{Discount allow by employee (y)} = \frac{2600-2400}{2600} \times 100 = \frac{200}{2600} \times 100 = 7\frac{9}{13} \%$$

$$\mathbf{96. (b); Y} = 7\frac{9}{13} \%$$

$$\mathbf{97. (d); Required ratio} = \frac{100}{390} = \frac{100}{13 \times 390} = 10 : 507$$

$$\mathbf{98. (a); New selling price of one bottle} = 2600 \times \frac{90}{100} = 2340$$

$$\text{Required profit } \% = \frac{2340-2000}{2000} \times 100 = 17\%$$

$$\mathbf{99. (b); Total stock which another distributor sold} = (350 + 450) = 800$$

$$\text{Total commission received by another distributor} = \frac{800}{50} \times 1000 = 16000 \text{ Rs.}$$

$$\text{New cost price of one bottle} = 2000 + \frac{16000}{800} = 2020 \text{ Rs.}$$

$$\mathbf{100. (a); Selling price} = 2600 \times \frac{95}{100} \times \frac{7}{8} = 2161.25 \text{ Rs.}$$

$$\text{Required profit} = 2161.25 - 2000 = 161.25 \text{ Rs.}$$

ENGLISH LANGUAGE

101. (d); Suffice- be enough or adequate.

Serve- be enough for.

Disperse- distribute or spread over a wide area.

Dissipate- (with reference to a feeling or emotion) disappear or cause to disappear.

Squander- waste (something, especially money or time) in a reckless and foolish manner.

Among the given options, the option (d) 'serve' is the most appropriate word to fill the blank. Hence, the option (d) is the correct answer.

102. (a); Among the given options, only option (a) conveys the meaning that supports the given statement in the passage. Option (a) conveys that if you connect words just to create an effect,

that is not poetry, it just includes the one factor which is 'intelligence' but it is devoid of the other factor which is 'skill.'

Hence, the option (a) is the correct answer.

103. (b); The hint for the answer is derived from the paragraph where it is given as "considering something like IQ to be a sufficient index of human mental capacity!" An intelligence quotient (**IQ**) is a total score derived from several standardized tests designed to assess human intelligence. Option (d) is out of context hence can be omitted easily. Only option (b) has talked about the 'human intelligence.'
Hence, the option (b) is the correct answer.

104. (c); The position of (2) (intelligence) and (3) (different) seems correct, but the words 'activity' and 'failures' seem to be incorrectly placed. Hence, upon interchanging 1-4, we get the sentence, grammatically and contextually correct and meaningful, respectively. The sentence thus formed will be, "One of the major failures here is that of considering intelligence to be something different from and raised above the activity of living."
Hence, the option (c) is the correct answer.

105. (b); relegated- assign an inferior rank or position to
The hint for the answer can be derived from the line itself. "This leads to the misconception that intelligence can be to something else — say, a robot — without becoming something else."
It explains that there is a misconception that a robot can replace the 'intelligence' or 'intelligence' can be degraded to a lower position. Among the given options, the word 'relegated' gels well with the theme of the paragraph and makes the sentence grammatically and contextually correct and meaningful, respectively. Hence, the option (b) is the correct answer.

106. (b); Virtues- behaviour showing high moral standards.
fortes- a thing at which someone excels.
Gentry- people of good social position, specifically the class of people next below the nobility in position and birth.
Rage- violent uncontrollable anger.
Among the given options, the option (b) 'fortes' is the most appropriate word to fill the blank. Hence, the option (b) is the correct answer.

107. (c); (I) We expect individuals to be their own leaders, to take charge of their lives, to assume responsibility for their decisions.

(II) A person who merely coordinates the actions of others or has management skills is not a leader.

(III) I suppose there is little new one can say on this matter.

BCA will be the correct sequence. Hence, the option (c) is the correct answer.

108. (b); Entails- involve (something) as a necessary or inevitable part or consequence.

Arouse- evoke or awaken (a feeling, emotion, or response).

Sheers- a very fine or diaphanous fabric or article.

Garners- gather or collect (something, especially information or approval)

The given line in the passage conveys that to be a good leader it is necessary to put forth the collective interest first instead of her/his own interest. Hence, the option (b) is the correct answer.

109. (d); Among the given options, only option (d) gels well with the preceding and the following sentences of (C). The rests seem out-of-context. Hence, the option (d) is the correct answer.

"Since this intellectual formulation can only be the first step, an estimate of the real quality of a decision is not known until it is implemented; Its deficiencies begin to show up only when put into practice. This requires him to keep his ear to the ground, listen patiently to criticism to judge if his policies are working."

110. (e); The given sentence is grammatically correct and contextually meaningful and doesn't require any changes. Hence, the option (e) 'no error' is the correct answer.

111. (c); Collusion- secret or illegal cooperation or conspiracy in order to deceive others.

Commotion- a state of confused and noisy disturbance.

Concession- a thing that is granted, especially in response to demands.

Digression- a temporary departure from the main subject in speech or writing.

It is evident from the whole passage that author is talking about the idea of reconsideration of angel tax on start-ups. Only option (c) has a meaning which fits best in the given blank as per the context of the passage. Hence, the option (c) is the correct answer.

112. (d); Norms- something that is usual, typical, or standard.

Among the given options, the option (d) 'standards' is the most appropriate word to fill the blank. Hence, the option (d) is the correct answer.

113. (d); BAC will be the correct choice as it will make all the three sentences grammatically and contextually correct.

(i) The tax, which was first introduced in 2012 to curb money-laundering through the **sale of shares of private unlisted companies** at bloated prices, has caused a lot of anguish among start-up investors in the country.

(ii) For its part, the IT department fears that start-ups may be used as convenient tools to launder illegally acquired money, so a tax on investments beyond a certain threshold is **necessary to deter such shady operations**.

(iii) The broad-brush tax on all investments means an unnecessary cost is imposed **on the wider start-up** community simply because of the lack of better means at the government's disposal to tackle black money.

BAC will be the correct sequence. Hence, the option (d) is the correct answer.

114. (e); The positions of (2) (benefits), (4) (justifiable) and (1) (unintended) and (3) (intent) seems to be incorrectly placed. Hence, upon interchanging 2-4 and 1-3 we get the sentence which is grammatically and contextually correct and meaningful, respectively. "But while the intent of such an angel tax may be justifiable, the arbitrary nature of it means the cost of unintended consequences could be larger than the supposed benefits"

Hence, the option (e) is the correct answer.

115. (c); Based on the information given in the passage, among the given options, only option (c) best describes the term 'angel investor.' The line given in the passage, "For its part, the IT department fears that start-ups may be used as convenient tools to launder illegally acquired money, so a tax on investments beyond a certain threshold is necessary to deter such shady operations" gives an idea that angel investors are those who provide capital for a business start-up.

Hence, the option (c) is the correct answer.

116. (c); B-D can replace each other and form a meaningful sentence. "Abroad" and "overseas" can here be used interchangeably as they imply similar meaning and can be used at each other's place without altering the actual context of the sentence.

"Diaspora" is the spreading out of group of the people belonging to similar identity/ nation.

117. (b); A-B can replace each other and form a meaningful sentence. "Police" and "Magistrates" can be exchanged as they do not alter the actual meaning of the given statement. Also, "perpetrators" which means people who carries out a harmful, illegal, or immoral act and "public" can not replace other highlighted words of the sentence.

118. (e); No interchange is possible. As none of the given highlighted words can substitute each other, there is no scope for using the words interchangeably without altering their meaning.

119. (e); No interchange is possible. As none of the given highlighted words can substitute each other, there is no scope for using the words interchangeably without altering their meaning.

120. (d); C-D can replace each other and form a meaningful sentence. Here, "Enforcement Directorate" and "Police" can be interchanged as the statement mentions about a whole lot of bureaucrats and police. Thus placing Enforcement Directorate and Police at each others position will imply the similar meaning. Also, "tampered" which implies interfere with (something) in order to cause damage or make unauthorized alterations and "authority" cannot replace any other highlighted words within the statement.

121. (e); In the given sentence, "Dispensation" implies a political, religious, or social system prevailing at a particular time which is similar to II. In statements I and III, "Dispensation" is used in context of exemption from a rule or usual requirement.

Hence, option (e) is the correct answer.

122. (b); In the given sentence "sordid" means something involving immoral or dishonourable actions and motives which is similar to the I and III. Whereas, in statement II, sordid implies something dirty or squalid.

Hence, option (b) is the correct answer.

123. (c); In the given sentence promoted is used in context of supporting or actively encouraging something for its further progress which is similar to the statements given in II and III. Whereas, in statement I, promoted implies to raise (someone) to a higher position or rank.

Hence, option (c) is the correct answer.

124. (d); In the given statement, resistance implies the refusal to accept or comply with something which is similar to the statements I and II. Whereas, in statement III, resistance is used in context of the degree to which a substance or device opposes the passage of an electric current.

Hence, option (d) is the correct answer.

- 125. (e);** In the given statement, substantive has been having a firm basis in reality and so important, meaningful, or considerable. In Statements I, II and III, substantive imparts almost a similar meaning as given in the original sentence.
- 126. (c);** B-F and A-E are the correct pair to be substituted in the blanks given within the statement. Appreciation and acknowledgement are synonymous to each other and fit the first blank perfectly. Similarly, diplomatic and strategic can be used interchangeably to define something that is related to diplomacy.
- 127. (c);** A-E is the correct pair to be substituted in the blanks given within the statement. Here divulged implies make known/ revealing (private or sensitive information) and submitted is used in context of accepting to the authority.
- 128. (d);** C-D is the correct pair to be substituted in the blanks given within the statement. Here accorded means give or grant someone (power, status, or recognition) and encroaches means intrude on/ trespass.
"Estranged" means no longer close or affectionate to someone which is also similar to "Alienated".
"Repelled" here implies drive or force (an attack or attacker) back or away.
"Admonish" means warn or reprimand someone firmly.
- 129. (e);** B-D and B-F are the correct pair to be substituted in the blanks given within the statement. Here, "Summons" implies orders to appear before a judge or magistrate, or the writ containing such an order. Also, as the police commissioner had observed and directed the execution of investigation, both, "Supervised" and "Administered" can be used to fill in the second blank.
- 130. (d);** B-E is the correct pair to be substituted in the blanks given within the statement. "Executed" here implies put (a plan, order, or course of action) into effect and "adversely" implies in a way that prevents success or development; harmfully or unfavorably. Therefore Executed and Adversely perfectly fit in the blanks given in the statement.
Also, here "fickle" implies changing frequently, especially as regards one's loyalties or affections and "sabotage" means deliberately destroy, damage, or obstruct (something), especially for political or military advantage.
- 131. (b);** Option (b) is the correct choice as the given sequence is grammatically and contextually correct.
Institutions, as the embodiment of formal and informal rules, assure citizens that the government exercises power according to some norms that enable as well as regulate state capacity.
- 132. (d);** Option (d) is the correct choice as the given sequence gives us a grammatically and contextually correct.
In the aftermath of Partition, seen as the outcome of the community-based template of political competition introduced under British rule, secularism was an article of faith across the ideological spectrum, though only in a limited definition as a seamless sense of national identity.
- 133. (c);** Option (c) is the correct choice as the given sequence gives us a grammatically and contextually correct.
The Nair Service Society, represented by veteran lawyer K. Parasaran, sought a review of the verdict on the ground that the exclusion was not based on gender or sex, but on religious faith in and character of the deity.
- 134. (b);** Option (b) is the correct choice as the given sequence **BDCAE** gives us a grammatically and contextually correct.
While Mr. Venugopal said he did not want the court to impose any punishment on Mr. Bhushan, the government, represented by Solicitor General Tushar Mehta, was of the opposite opinion.
- 135. (e);** Option (e) is the correct choice as the given sequence **BADCE** gives us a grammatically and contextually correct.
The principle is that the Bill would ban unregulated deposit-taking activities altogether, by making them an offence ex-ante rather than the existing legislative-cum-regulatory framework that only comes into effect ex-post with considerable time lags.
- 136. (d);** Incommensurate- out of keeping or proportion with.
Inordinate- unusually or disproportionately large; excessive.
Proportionate- corresponding in size or amount to something else.
Lopsided- with one side lower or smaller than the other.
Out of the given options only option (d) is opposite to the given word 'incommensurate', hence option (d) is the correct answer choice.

137. (e); Squander means waste (something, especially money or time) in a reckless and foolish manner. Dissipate means (with reference to a feeling or emotion) disappear or cause to disappear. Lavish means spent or given in profusion. Retrieve means get or bring (something) back from somewhere. Splurge means spend (money) freely or extravagantly.

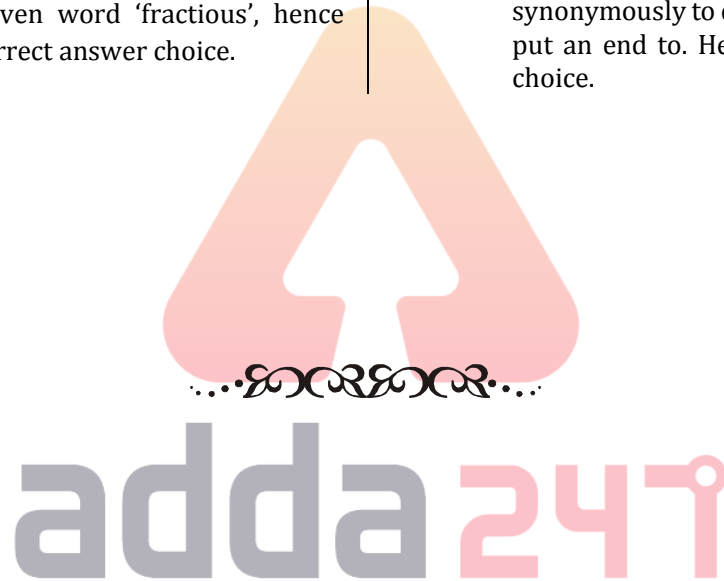
138. (b); Fractious- irritable and quarrelsome. Affable- friendly, good-natured, or easy to talk to. Grouchy- irritable and bad-tempered; grumpy; complaining. shrewish- bad-tempered or aggressively assertive. Out of the given options only option (b) is opposite to the given word 'fractious', hence option (b) is the correct answer choice.

139. (a); Conciseness- usually implies that unnecessary details or verbiage have been eliminated from a more wordy statement and thus it might be ineffective.

Rhetoric- the art of effective or persuasive speaking or writing, especially the exploitation of figures of speech and other compositional techniques.

Out of the given options only option (a) is opposite to the given word 'rhetoric' and all other given options are synonyms to the given word. Hence option (a) is the correct answer choice.

140. (d); Here, "ratify" implies to sign or give formal consent to (a treaty, contract, or agreement), making it officially valid. Whereas, other mentioned words, eradicate, exterminate, abolish and annihilate can be used synonymously to destroy something completely; put an end to. Hence, option (d) is the correct choice.



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Directions (1-3): Study the following information and answer the questions given below:

There are seven given letters A, Y, E, R, S, P and L which are arranged from left to right with facing north direction. There are three letters between the S and E. There is only one letter between E and A. R is immediate left of S. Y is immediate left of E. P and L are adjacent to each other. L is not adjacent to R.

- Who among the following is on extreme end?
(a) A, S (b) Y, S (c) A, P
(d) A, R (e) E, S
- Who among the following is immediate right of P?
(a) R (b) L (c) E
(d) A (e) Y
- Which letter is adjacent to E?
(a) Y, P (b) Y, L (c) A, S
(d) S, L (e) R, Y

Directions (4-6): Study the following alphanumeric series carefully and answer the questions given below:

7 A 6 P & R \$ 4 Y Q % T @ 3 9 S I O 9 9 J L E U * K # 3

STEP I: The letters which are immediately preceded and immediately followed by a symbol are arranged in the end of the series in the alphabetical order. (They are arranged just after 3)

STEP II: The numbers which are immediately preceded by the letter and immediately followed by the Symbol are arranged between 9 and S in the increasing order.

STEP III: The numbers which are immediately followed by letter are interchanged its position with respect to the element just after it.

(STEP II is applied after STEP I and STEP III is applied after STEP II)

- How many letters are arranged at the end of the series in the step-1?
(a) one (b) Three (c) Four
(d) Five (e) More than five
- Which among the following are the elements of the series which are second position from the left end and fifth position from the right end in step-III?
(a) 63 (b) 7# (c) P#
(d) AK (e) 6#
- How many symbols are immediately followed by numbers in step-III?
(a) one (b) Three (c) Four
(d) Five (e) Two

Directions (7-9): Study the following information carefully to answer the given question.

There are Some boxes which are arranged one above another such that one box is placed at the bottom and another box is placed just above that box and all are arranged in the same order.

Only two boxes are there in between Orange box and box U and Orange box is above box U. There is only one box in between box P and box S. Box S is of Purple color and is placed above box R. There are three boxes in between Orange box and Green box. Green box is placed below U, which is not of blue colour. Only one box is placed in between box R and Orange box. More than four boxes are placed in between box P and Orange box. There are as many as boxes placed between box S and the box which is of Orange colour and as many as between the box which is of orange colour and the box which is of green colour. The box which is of green colour is placed at the bottom. Not more than two boxes are placed in between box V and box S. Box R is placed just above the box of blue colour. Box V is not an immediate neighbor of Box S and Box P.

- How many boxes are there in the arrangement?
(a) Ten (b) Eleven (c) Fourteen
(d) Twelve (e) None of these
- How many boxes are there between box R and box U?
(a) Five (b) One (c) Four
(d) Two (e) None of these
- Which box is immediately above Orange box?
(a) S (b) R (c) Purple box
(d) V (e) Green box

Directions (10-12): Study the following alphanumeric series carefully and answer the questions given below:

12AIFR 42WBOL 63EOCN 15TVMR 75GYTR

- How many meaningful words can be formed from the letters of the words which are attached with the numbers in which At least one digit is even digit in the given alphanumeric series?
(a) one (b) two (c) three
(d) four (e) More than four
- The words are arranged according to the descending order of the numbers which are attached to them from left to right, then how many alphabets are between the letters of second letter from the left end and seventh letter from the right end?
(a) one (b) two (c) three
(d) four (e) More than five

12. The letters which are attached with the numbers in which at least one is odd digit are arranged according to the ascending orders of their numbers from left to right and then all letters of the words together are arranged in the alphabetical order, then which of the following is the 9th letter from the right end?

- (a) M (b) O (c) N
(d) R (e) None of these

Directions (13-15): Study the following information and answer the questions given below:

There are AB axis in such a way that A is in north and B is in south direction. There is XY axis in such a way that X is in west direction and Y is in east direction. AB axis and XY axis intersect at a point Q in such a way that AQ is 15m, QB is 17m, QX is 12m, QY is 24 m.

Mehul starts from point X and walks 20m in south direction and then he turns his left and walks 32m. Arun starts from point A and walks 20m in east direction. Raju starts from point Y and walks 5m in north direction and then he turns his left and walk 4m and again he turns his left and walks 22m.

13. Point B is in which direction with respect to Arun's current position?

- (a) south (b) south-east (c) south-west
(d) west (e) north-west

14. Point Y is in which direction with respect to Mehul's current position?

- (a) north (b) east (c) north-east
(d) north-west (e) south

15. What is distance between Raju's current position and Mehul's current position?

- (a) 3m (b) 5m (c) 13m
(d) 22m (e) 27m

Directions (16-18): Study the following information and answer the questions given below:

16. Four friends are sitting around a circular table named M, N, O and P. Are they facing to the centre of table? If-

- I. N is sitting second to the right of P. P is facing centre. O is sitting immediate right of N and P.
II. M is sitting immediate left of N. O is not sitting immediate left of M. O is sitting immediate right of P.
III. P is sitting immediate of M and O. N is sitting immediate left of M. O is sitting immediate left of P.

- (a) If the data in statement I and II are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.
(b) If the data in statement II and III are sufficient to answer the question, while the data in statement I is not sufficient to answer the question.

- (c) If the data in statement I alone or in the statement II alone or in the statement III alone is sufficient to answer the question.
(d) If the data in all the statement I, II and III are necessary to answer the question.
(e) If the data in statement I and III are sufficient to answer the question, while the data in statement II is not sufficient to answer the question.

17. Six people A, B, C, D, E and F are living in six floor building each live in one of apartment of building. In building there are from I to VI floor. Ground floors is given number I, then II and so on. Who is living on Ground floor?

- I. In which floor C and B are living there is only one floor between them. A is living in even number floor.
II. E is not living in even number floor. B is living in even number floor. B is not living in top floor.
III. D is living in odd number floor. In which floor D and A are living, there are two floors between them. E is living immediate next to C from down.
(a) If the data in statement I and II are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.
(b) If the data in statement I and III are sufficient to answer the question, while the data in statement II is not sufficient to answer the question.
(c) If the data in statement II and III are sufficient to answer the question, while the data in statement I is not sufficient to answer the question.
(d) If the data in all the statement I, II and III are necessary to answer the question
(e) If the data in statement I alone or in the statement II alone or in the statement III alone is sufficient to answer the question.

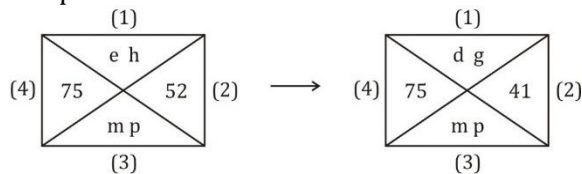
18. Who is youngest among six family members G, H, I, J, K and L? (Each member is of different ages.)

- I. G is the daughter-in-law of J, K is grandson of L, who is the father of H.
II. G is not youngest while L is the eldest.
III. H is the father of I, who is grandson of L. J is the wife of K's son and I's father
(a) If the data in statement I and II are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.
(b) If the data in statement I alone or in the statement II alone or in the statement III alone is sufficient to answer the question.
(c) If the data in statement I and III are sufficient to answer the question, while the data in statement II is not sufficient to answer the question.
(d) If the data in statement II and III are sufficient to answer the question, while the data in statement I is not sufficient to answer the question.
(e) If the data in all the statement I, II and III are necessary to answer the question

Directions (19-21): Study the following information and answer the questions given below:

There is four triangles given in question on which we apply some operation individually on each triangle and then convert it into solution. We have to answer the questions from the triangle which comes after the operation applied on the given triangle.

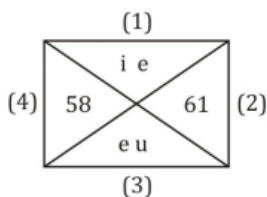
For example-



- (1) For triangle 1- if the total letter between given two letters in the triangle 1 is less than three then change each letter to previous letter according to English alphabetical series
- (2) For triangle 2- if the difference between given two digit is less than 5 then change the each digit to previous digit.
- (3) For triangle 3- if the total letters between given two letters is more than 5 then change the each letter to previous letter according to English alphabetical series.
- (4) For triangle 4- if the difference between given two digits is more than 2 then change each digits to previous digit.

Note: If the above condition are not applied then we write the digit and letter as it is in solution part.

Based on the above example solve the given question.



19. How many meaningful words are formed by letter combining from triangle 1 and triangle 3?
 - (a) None
 - (b) Two
 - (c) Three
 - (d) One
 - (e) Four
20. What is the sum of each digits which is obtained in triangle 2 and triangle 4?
 - (a) 17
 - (b) 18
 - (c) 19
 - (d) 20
 - (e) 16
21. Which of the following letter is obtained in triangle 3?
 - (a) d,f
 - (b) t,c
 - (c) d,t
 - (d) d,v
 - (e) t,b

Directions (22-24): A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input- acon 82 43 exam 16 acer loge 77 rope 22

Step I - care 82 acon 43 exam 16 loge 77 rope 22

Step II- cano 77 care 82 43 exam 16 loge rope 22

Step III- emax 43 cano 77 care 82 16 loge rope 22

Step IV- lego 22 emax 43 cano 77 care 82 16 rope

Step V- rpeo 16 lego 22 emax 43 cano 77 care 82

Input- 54 roll 39 back 87 25 cash seat 46 beat

22. In which of the following step 25 and seat are placed immediately?

- (a) Step-III
- (b) Step-IV
- (c) Step-III and Step-IV
- (d) Step II
- (e) None of these

23. How many elements are there between 54 and 39 in step-II?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

24. Which elements are there between chsa and 54 in step-IV?

- (a) 46, abck
- (b) eata,46
- (c) 87,25
- (d) rllo,seat
- (e) None of these

Direction (25-27): There are two rows given and to find out the resultant of a particular row we need to follow the following steps: -

Step 1: If an even number is followed by an odd (prime) number then the resultant will be the addition of both the numbers.

Step 2: If an odd number is followed by a perfect square then the resultant will be the difference of the square number and the odd number.

Step 3: If an odd number is followed by another odd number (but not a perfect square) then the resultant will be the addition of both the numbers.

Step 4: If an even number is followed by an odd (non-prime) number then the resultant will be the difference of the odd number and the even number.

Step 5: If an odd number is followed by an even number then the resultant comes by multiplying the numbers.

25. Find the sum of two rows

6 5 2

11 4 3

- (a) 38
- (b) 32
- (c) 42
- (d) 57
- (e) None of the above

26. If the sum of the resultants of two rows is 44. Then find the value of X.

14 7 5

12 X 6

- (a) 3
- (b) 9
- (c) 2
- (d) 5
- (e) None of the above

27. Find the difference between the resultant of first and second row.

7 4 8

11 9 13

(a) 2

(b) 3

(c) 8

(d) 9

(e) None of the above

Directions (28-30): Study the following information carefully and answer the questions given below.

There are five doctors of different types viz., Ophthalmologist, Orthopedic surgeon, Psychiatrist, General physician and Dentist in a hospital but not necessarily in same order. They attend their patients at different timing in a single day. The duration of their meeting with the patient is different. The total duration of the meeting with the patients by all doctors is of 11 hours. There is no gap between the meeting time of all doctors. The duration of meeting either full hour or half an hour but not in one third or one fourth.

The one who is orthopedic surgeon attends their patients from 12:30 to 3pm. The dentist attends their patients immediate before or immediate after the Orthopedic surgeon. The meeting hour of Dentist with the patients is three hours. The duration of meeting with patients of General physician is more than duration of meeting of Psychiatrist with patients by 1 hour. General physician attends meeting just after the meeting of Psychiatrist. The general Physician does not attend patients at the last. The Ophthalmologist attends their patients before the Orthopedic surgeon but not immediate before. The duration of meeting of Ophthalmologist is of 1.5 hours. The timing of Psychiatrist meeting is after 6:00 am.

28. Who among the following attends patients from 3:00-6:00 pm?

(a) Ophthalmologist

(b) Psychiatrist

(c) General physician

(d) Dentist

(e) Orthopedic surgeon

29. Who among the following attends patients just after the Ophthalmologist?

(a) General physician

(b) Psychiatrist

(c) Orthopedic surgeon

(d) Dentist

(e) None of these

30. What is the duration (in hours) of the Psychiatrist's meeting with the patients?

(a) 2.5 hour

(b) 3 hour

(c) 3.5 hour

(d) 1.5 hour

(e) 2 hour

Directions (31-33): Study the following information carefully and answer the questions given below:

There are nine persons namely A, K, L, M, N, O, P, Q and R live on three different floors from one to three. Ground floor is number 1 and top floor is number third but not necessarily in the same order. There are three flats on each floor- flat-1, flat-2 and flat-3 from west to east such that flat-1 of third floor is exactly above flat-1 of second floor which is exactly above flat-1 of first floor and other flats are placed in the same way.

A lives in an even numbered flat. P lives just above M in a flat numbered 3. A does not live on the same floor on which P lives. O lives just above Q. Q does not live on the same floor on which M lives. N lives just below M in a flat numbered 3. L lives left to R.

31. Who lives in flat-3 of first floor?

(a) A

(b) K

(c) P

(d) N

(e) None of these

32. Who among the following lives immediate left to P?

(a) R

(b) L

(c) O

(d) Q

(e) None of these

33. How many persons live below M in flat 3 segment ?

(a) Two

(b) No one

(c) One

(d) either (a) or (c)

(e) None of these

Directions (34-37): In each of the questions below are given three statements followed by three conclusions number I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the entire conclusion and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

34. **Statements:**

All pigs are Zebra.

All Zebra are Rabbits.

No Ant are Pig.

Conclusions:

I. Some rabbit is Ant.

II. Some Zebra are Ant is a possibility.

III. Some Ant are Pig.

(a) Only I follows

(b) Only II follows

(c) Only III follows

(d) All follow

(e) None of these

35. **Statements:**

Some bat are pen.

Some pen are Shirt.

No shirt is Coat.

Conclusions:

I. Some Coat is Pen.

II. Some Coat is shirt is a possibility.

III. All pen can be Coat

(a) None follows

(b) only II follows

(c) only III follows

(d) only I follows

(e) only either II or III follow

36. **Statements:**

All Men are Rock.

Some men are pearl.

No Rock is Angel.

Conclusions:

I. Some men are not Angel.

II. All Pearl can be Angel is a possibility.

III. Some Angel can be Pearl is a possibility.

(a) only I and II follow

(b) only I and III follow

(c) only II and III follow

(d) All I, II and III follow

(e) None of these

- 37. Statements:** Some Z are X
Some X are not U
Some V are U
- Conclusions:** I. All U can be X
II. All V can never be Z
- (a) Only I and II follow (b) Only II follows
(c) Only I follows (d) None follows
(e) None of these

Directions (38-40): Study the following information carefully and answer the questions that follow:

There are five cars – A, B, C, D, F – parked in a row facing north direction, but not necessarily in the same order. The distances between two adjacent bikes are successive multiples of three (i.e. if the distance between the 1st and the 2nd bike is 3 m, 1st and the 3rd bike is 6m and between 1st and 4th bike is 9 m and so on.)

(i.e. suppose Car A is left end of the line at point R then the remaining people will stand at a distance as follows - 3m, 6m, 9m.....from the end)

Car A is standing at the left end of the line. Two cars are standing between Car A and Car B. Car C stand second to the left of Car B. Car F is an immediate neighbor of Car C. Only one person stands between Car F and Car D. Car G which starts moving from point P which is 5m in north from Car F. Car G moves 12 m in north-east direction till point Q. Point Q and Car D are inline vertically. Car D moves 4m in the north direction and stops at point R. Car A moves in the direction to point R.

- 38.** Car A at which of the following point after moving from its starting position?
(a) point R
(b) Point P
(c) Between point P and Car F
(d) Can't be determined
(e) Point D
- 39.** What is the shortest distance between Car D's new position and Car F's position?
(a) $\sqrt{41}$ m (b) $\sqrt{52}$ m (c) 12m
(d) 21m (e) None of these
- 40.** What is the distance between Car G's new position and Car D's old position?
(a) $\sqrt{41}$ m (b) $\sqrt{21}$ m (c) $6\sqrt{3} + 5$ m
(d) $5\sqrt{3}$ m (e) None of these

Directions (41-42): In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumption and decide which of the assumption is implicit in the statement.

Give answer

- (a) If only assumption I is implicit
(b) If only assumption II is implicit
(c) If either I or II is implicit
(d) If neither I nor II is implicit
(e) If both I and II are implicit

- 41. Statement:** Government should deploy army to rehabilitate the people displaced due to earthquake.
Assumptions
I. Army can be used for purposes other than war also.
II. Only army can rehabilitate the displaced victims of earthquake.

- 42. Statement:** A Government advertisement in public interest- "For a child's better mental health, admit him/her to a school only after five years of age."
Assumptions
I. A child cannot learn before he/she turns five.
II. Some school authorities were admit children who are below five years of age.

Directions (43-44): In each question below, are given a statement followed by two courses of action numbered I and II. On the basis of the information given in the statement, you have to assume everything in the statement to be true, and then decide which of the suggested courses of action logically follow(s) for pursuing.

Give answer:

- (a) if only I follows.
(b) if only II follows.
(c) if either I or II follows.
(d) if neither I nor II follows.
(e) if both I and II follow.
- 43. Statement:** A number of school children in the local schools have fallen ill after the consumption of their subsidized tiffin provided by the school authority.
Course of action
I. The tiffin facility of all schools should be discontinued with immediate effect.
II. The government should implement a system to certify the quality of tiffin provided by the school.

- 44. Statement:** A huge rally will be organized by the people in the locality, on a religious occasion and the police was informed accordingly.
Course of action
I. Adequate police force should be deployed to oversee the procession of the rally.
II. Vehicles on the road should be advised a diversion to avoid traffic congestion.

Directions (45-47): Study the following information carefully and answer the questions given below:

Eight persons namely J, K, L, M, N, O, P and Q are living in an eight-floor building with bottommost floor being the first floor while topmost floor being numbered as eighth floor. Only one person stays on one floor. All of them belong to the same family and there is only two married couple but they have different blood groups i.e. AB+, AB-, O-, B-, A-, A+, O+ and B+. Each of them participated and

obtained different grade in a competitive exam viz. A, B, C, D, E, F, G and H but not necessarily in the same order. The grading is done in alphabetical order on the basis of their marks with top scorer obtaining A grade while the lowest scorer being given H grade.

L's maternal aunt does not live on eighth or first floor. The person who is the third lowest scorer lives on the fifth floor. K is the wife of Q and she has only one child. The person who scored sixth highest marks does not have B- blood group. The person whose blood group is AB- lives on an even-number floor. The person whose blood group is O- is an unmarried brother of Q. O is the sister-in-law of Q. L's grandmother has only one brother. The person whose blood group is AB+ lives on the top floor. The third highest scorer lives between K and L's grandmother. O obtained B grade and M's husband's brother-in-law scored the highest marks. M is the mother of Q. The person who obtained G grade has O- blood group and does not stay on the fifth floor. The person whose blood group is A+ lives on the seventh floor. N is the father of J, who is the uncle of L. K's father-in-law obtained E grade and lives on the sixth floor. The person who obtained D grade has A- blood group and lives on the third floor. The person who scored the lowest marks lives on first floor. Q's child and the one whose blood group is B+ live on an even-numbered floor. L's grandmother obtained F grade and L's uncle is the second lowest scorer. L does not have AB- blood group.

45. Who amongst the following has AB- blood group?

- (a) N (b) Q (c) J
(d) M (e) L

46. How is the person whose blood group is A- related to J?

- (a) Brother-in-law (b) Brother
(c) Son (d) Sister-in-law
(e) Father

47. Who lives immediately above the one whose blood group is A-?

- (a) Q
(b) O
(c) The one who scored the third highest marks
(d) The one who obtained F grade
(e) The one whose blood group is AB+.

48. Who amongst the following lives on an even numbered floor below the person whose blood group is O+?

- (a) Q
(b) The one whose blood group is A-
(c) The one who obtained F grade
(d) The one who obtained C grade
(e) The one whose blood group is A+

49. **Statement:** A slump in home sales has pushed builders' inventory to "unsustainable levels" in the National Capital Region of Delhi, creating conditions for a real price correction that developers have so far avoided.

Which of the following statements is inferred on the basis of the given statement?

- (a) Demand for houses is quite low in most of the big cities.
(b) The high inventory level will hamper the ability of launching new projects by the builders.
(c) Builders in the market who have shown a good track record of delivering on time and on their promises, have been able to garner sales even in this slow market.
(d) Unless this unsold stock gets absorbed, it will be difficult for consumer confidence to come back in this market.
(e) High prices have pushed most of the on-sale apartments beyond the reach of average home buyers.

50. **Statement:** Next time, when you lose your baggage or meet with an accident while travelling by train, you need not run from pillar to post and wait for years before the cheque lands at your door.

Which of the following can be inferred from the given information? (An inference is something that is not directly stated but can be inferred from the given information.)

- (a) There will be quick settlement of claims into the customer's account.
(b) All travellers' details will be linked with Aadhaar card.
(c) The loss will be covered by any insurance company through railways.
(d) There will be direct settlement of claim by the IRCTC.
(e) None of these

QUANTITATIVE APTITUDE

Direction (51-55): Calculate the approximate value of given questions

51. $(421.98 + 478.21) \div ? = 60.029$
 (a) 6 (b) 8 (c) 9
 (d) 12 (e) 15
52. $\sqrt{257} \times 19.17 + 8.15 \times 13.78 = ?$
 (a) 406 (b) 450 (c) 432
 (d) 416 (e) 392
53. $6.217 \times 23.88 + ? = 18.98 \times 32.12$
 (a) 216 (b) 224 (c) 200
 (d) 228 (e) 250
54. $27.897 \times 16.21 = ? \times 13.98 + 69.87$
 (a) 15 (b) 22 (c) 27
 (d) 32 (e) 39
55. $272.112 + 189.98 + 84.101 = ? \times 12.89 \times 6.11$
 (a) 5 (b) 7 (c) 9
 (d) 11 (e) 13

Directions (56-60): What will come in the place of the question mark (?) in the following number series?

56. 117.5, 117, 119, 111, 143, ?
 (a) 9 (b) 12 (c) 15
 (d) 18 (e) 21
57. 15, 12, 31, 148, ?
 (a) 1039 (b) 1011 (c) 1012
 (d) 1024 (e) 1027
58. 1, 13, 83, 419, 1679, ?
 (a) 5029 (b) 5039 (c) 5019
 (d) 5049 (e) 5059
59. 12, 25, 48, 99, 194, 393, ?
 (a) 780 (b) 786 (c) 792
 (d) 783 (e) 789
60. 3, 11, 31, 69, 131, ?
 (a) 215 (b) 217 (c) 221
 (d) 223 (e) 213

Directions (61-65): Table given below shows number of tickets sold in six different theatres, number of tickets sold to children and remaining ticket sold to adults [male and female]. Study the data carefully and answer the following questions.

Theatre	Ticket sold to children	Ticket sold to Adults (Male : Female)
C1	15	6 : 7
C2	10	3 : 4
C3	20	2 : 3
C4	14	6 : 5
C5	8	5 : 4
C6	12	9 : 8

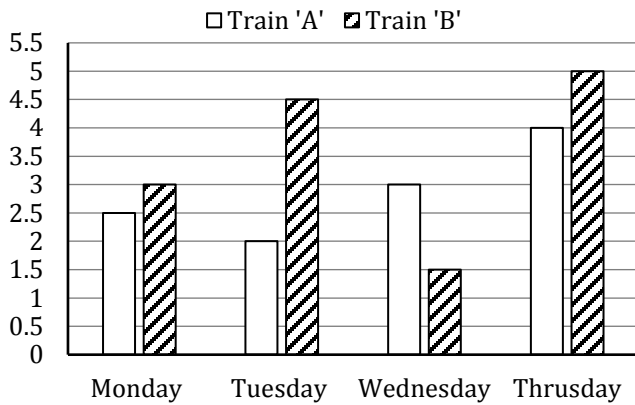
Total 80 tickets are sold in each theatre.

61. Find the ratio of number of tickets sold to males by C3 and C6 theatre together to number of tickets sold to females by C3 and C5 theatre together.
 (a) 14 : 19 (b) 15 : 17 (c) 20 : 23
 (d) 16 : 19 (e) 14 : 17
62. Number of female who bought ticket from C2 and C4 theater together is what percent more than number of males who bought ticket from C5 theatre.
 (a) $33\frac{1}{3}\%$ (b) 50% (c) $66\frac{2}{3}\%$
 (d) 75% (e) 87.5%
63. If per ticket price for children, male and female is Rs. 150, Rs. 200 and Rs. 250 respectively. Then find the total revenue earn by C4 theater.
 (a) 16600 (b) 15400 (c) 16800
 (d) 15800 (e) 16400
64. Find the average number of male who bought tickets from C1, C2 and C3 theatre together.
 (a) 30 (b) 28 (c) 32
 (d) 34 (e) 36
65. Number of males who bought ticket from C4, C5 and C6 together is how much more than number of females who bought ticket from same theatres.
 (a) 18 (b) 20 (c) 21
 (d) 24 (e) 26
- Directions (66-70):** In each of these questions, two equations (i) and (ii) are given. You have to solve both the equations and give answer

- (a) if $x > y$
 (b) if $x \geq y$
 (c) if $x < y$
 (d) if $x \leq y$
 (e) if $x = y$ or no relation can be established between x and y .

66. (i) $2x^2 - 5x + 3 = 0$ (ii) $3y^2 - 4y + 1 = 0$
 67. (i) $x^2 - 17x + 72 = 0$ (ii) $y^2 - 27y + 180 = 0$
 68. (i) $(x - 12)^2 = 0$ (ii) $y^2 - 21y + 108 = 0$
 69. (i) $2x^2 + 7x + 5 = 0$ (ii) $3y^2 + 12y + 9 = 0$
 70. (i) $x^2 + 2x - 35 = 0$ (ii) $y^2 + 15y + 56 = 0$

Directions (71-75): Bar graph given below shows the time taken by two trains in hr, on different days. Study the data carefully and answer the following questions:



Both Train Cover 450km distance on every day

71. Speed of train 'A' on Tuesday is what percent more than speed of train 'B' on Monday?
 (a) $33\frac{1}{3}\%$ (b) 50% (c) $66\frac{2}{3}\%$
 (d) 75% (e) 87.5%
72. Find the average speed of train 'B' on Tuesday and Train 'A' on Wednesday?
 (a) 140 (b) 130 (c) 135
 (d) 120 (e) 150
73. On Friday, speed of train 'A' increases by 60% and speed of train 'B' increases by 25% as compared to Thursday. Find the sum of the time taken by both trains separately to cover the same distance?
 (a) 6.5 hr (b) 7.5 hr (c) 6 hr
 (d) 7 hr (e) 8 hr
74. Speed of train 'A' on Tuesday is how much less than speed of train 'B' on Wednesday?
 (a) 50 km/hr (b) 60 km/hr (c) 75 km/hr
 (d) 85 km/hr (e) 100 km/hr
75. Find in how much time train 'A' can cover the given distance if speed of train 'A' increases by 60% on tuesday?
 (a) 3 hr (b) 2.5 hr (c) 1.5 hr
 (d) 1.25 hr (e) 1.75 hr

Directions (76-80): The following questions are accompanied by two statements (A) and (B). You have to determine which statement(s) is/are sufficient /necessary to answer the questions

- (a) if the Statement 'A' alone is sufficient to answer the question but the Statement 'B' alone is not sufficient
 (b) if the Statement 'B' alone is sufficient to answer the question but the Statement 'A' alone is not sufficient
 (c) if both Statement 'A' and 'B' together are needed to answer the question
 (d) if either the Statement 'A' alone or Statement 'B' alone is sufficient to answer the question
 (e) if you cannot get the answer from both the Statements together

76. Is 'Z' a positive integer?
 (A) $Z^7 > Z$ (B) $Z^8 > Z$
77. Find the value of $4^{\frac{1}{a}} + 4^{\frac{1}{b}}$?
 (A) Sum of inverse of a and b is equals to $\frac{6}{5}$
 (B) Multiplication 'a' and 'b' is equals to 5
78. In how many days 14 men can complete a piece of work?
 (A) If 18 women can complete the same piece of work in 24 days.
 (B) If 28 children can complete the same piece of work in 56 days.
79. When one ball is drawn at random from an urn containing 25 balls, what is the chance that it is red?
 (A) The urn contains 10 yellow and 8 green balls.
 (B) The urn contains all colored balls.
80. Is 'w' an integer?
 (A) $3w$ is an odd number.
 (B) $2w$ is an even number.

Directions (81-85): Data regarding number of boys & girls in both the colleges is as follows: -

Average no. of Girls in St. Xavier college and Vijaya College is 210 & total number of boys in both the college is 810. Number of Girls is $\frac{2}{3}$ of boys & number of Girls is $\frac{2}{5}$ of number of Boys in St. Xavier college and in Vijaya College respectively.

81. Number of girls in Vijay college is what percent of the number of girls in St. Xavier College.
 (a) 50% (b) 62.5% (c) 75%
 (d) $66\frac{2}{3}\%$ (e) 87.5%
82. Average number of girls in St. Xavier college and 'X' college is 320. If total number of students in 'X' college is 25% more than total number of students in St. Xavier college then find the number of boys in 'X' college.
 (a) 450 (b) 400 (c) 375
 (d) 350 (e) 300
83. Find the difference between the total number of students in Vijaya college to the total number of students in St. Xavier college.
 (a) 15 (b) 20 (c) 25
 (d) 30 (e) 35
84. Ratio between number of boys in Vijaya college to number of boys in 'Y' college is 9 : 13 and number of girls in 'Y' college is 20% less than that in Vijaya college. Find the total number of students in 'Y' college?
 (a) 784 (b) 794 (c) 789
 (d) 798 (e) 778

85. Number of boys in Vijaya college is what percent more than number of boys in St. Xavier college?
(a) 32.5% (b) 20% (c) 50%
(d) 37.5% (e) 25%
86. 15 men can do a piece of work in 'X' days. 21 women can do a piece of work in 'X - 4' days. 35 men can do a piece of work in 'Y' days and 63 women can do a piece of work in 'Y - 4' days. Find the value of 'X' ?
(a) 14 (b) 18 (c) 28
(d) 24 (e) 32
87. Cost price of article A is double then that of article B and shopkeeper mark up both the article 20% more than the cost price. If at the time of sale shopkeeper gave Rs. 9 discount and earn 17% profit on total. Find the cost price of article A?
(a) 100 (b) 200 (c) 150
(d) 250 (e) 50
88. A committee of 5 people is to be formed among 4 girls and 5 boys. What is the probability that the committee will have less number of boys than girls?
(a) $\frac{3}{14}$ (b) $\frac{7}{13}$ (c) $\frac{3}{5}$
(d) $\frac{5}{14}$ (e) None of these
89. A train running at 25 km/hr takes 18 seconds to pass a platform and it takes 12 seconds to pass a man walking at 5 km/hr in the opposite direction. Length of train is how much more than length of the platform (in m)
(a) 50 (b) 75 (c) 100
(d) 125 (e) 150
90. Satish and Bhavya entered into a partnership with Rs 15000 and Rs 18000 respectively. Abhishek joined them after 'x' months and contributes Rs 24000 and Bhavya left 'x' month before the end of year. If they share profit at the end of the year. If they share profit in the ratio 10 : 9 : 12. Find the value of 'x'.
(a) 4 month (b) 6 month (c) 9 month
(d) 3 month (e) 8 month
91. Sakshi married 6 years ago. Today her age is $\frac{5}{4}$ times her age at the time of her marriage and her son is $\frac{1}{5}$ of her age. Find the ratio of Sakshi age to her son's age after 10 years ?
(a) 3 : 1 (b) 5 : 2 (c) 5 : 3
(d) 3 : 2 (e) 4 : 1
92. Ravi invested Rs 18000 in scheme 'A' which offers 15% p.a. at simple interest and Rs 15000 in scheme 'B' which offers 18% p.a. at compound interest. Find the difference between the interest earned from these two schemes after two years?
(a) 468 (b) 396 (c) 456
(d) 486 (e) 482
93. An alloy of copper and aluminum has 40% copper. Another alloy of Copper and Zinc has Copper and Zinc in the ratio 2 : 7. These two alloys are mixed in ratio 5:3. Quantity of aluminum is what percent more/less than the quantity of copper in final alloy.
(a) $11\frac{1}{9}\%$ (b) $11\frac{1}{3}\%$ (c) 12%
(d) 13% (e) 12.5%
94. Two boats, travelling at 5 Km/h and 10 Km/h respectively, head directly towards each other. They are now at a distance of 20 km from each other. How far apart are they (in Kms) one minute before they collide?
(a) $\frac{1}{12}$ (b) $\frac{1}{6}$ (c) $\frac{1}{4}$
(d) $\frac{1}{3}$ (e) None of these
95. If the volume and curved surface area of a cylinder $616 m^3$ and $352m^2$ respectively, what is the total surface area of the cylinder (in m^2)?
(a) 429 (b) 419 (c) 435
(d) 421 (e) 417
96. In an alloy, zinc and copper are in the ratio 1 : 2. In the second alloy the same elements are in the ratio 2 : 3. In what ratio should these two alloys be mixed to form a new alloy in which the two elements are in ratio 5 : 8?
(a) 7 : 11 (b) 3:10 (c) 5 : 11
(d) 9:11 (e) None of these
97. 40 men, working 8 hours a day can do a piece of work in 15 days. Find the number of days in which second group of 60 men working 4 hrs a day can do twice the work. Assume that 3 men of the first group do as much work in 2 hour as 4 men of the second group do in 3 hrs.
(a) 60 days (b) 40 days (c) 80 days
(d) 70 days (e) 75 days
98. A boat travel 75 km downstream and take same time as it travels 60 km in upstream. Speed of boat in downstream is what percent of the speed of boat in still water.
(a) $111\frac{1}{9}\%$ (b) $112\frac{1}{2}\%$ (c) 113%
(d) 140% (e) 110%
99. A train crosses a pole in 24 sec. A second train of same length crosses a platform in 30 sec with a speed 20% more than the first train. Find out the ratio of length of train and length of platform.
(a) 2 : 1 (b) 3 : 1 (c) 2 : 3
(d) 3 : 2 (e) 1 : 2
100. A tank can be filled with water by two pipes A and B together in 36 minutes. If the pipe B was closed after 30 minutes, the tank is filled in 40 minutes. The pipe B can alone fill the tank in?
(a) 45 minutes (b) 60 minutes (c) 75 minutes
(d) 90 minutes (e) 85 minutes

ENGLISH LANGUAGE

Directions (101-106): Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

A lot of the media discussion on the global economy nowadays is based on the notion of the “new normal” or “new mediocre”—the phenomenon of slowing, stagnating or negative economic growth across most of the world. News in terms of employment generation is even worse, with hardly any creation of good quality jobs and growing material insecurity for the bulk of the people. All sorts of explanations are being **proffered** for this state of affairs, from technological progress, to slower population growth, to insufficient investment because of shifts in relative prices of capital and labour, to “balance sheet recessions” created by the private debt overhang in many economies, to contractionary fiscal stances of governments that are also excessively indebted.

Yet, these arguments that treat economic processes as the inevitable results of some forces outside the system that follow their own logic and are beyond social intervention are hugely misplaced. Most of all, they let economic policies off the hook, and this is massively important because the possibility of alternative strategies that would not result in the same outcomes are simply not considered.

In an important new book (Failed: What the “Experts” Got Wrong About the Global Economy, Oxford University Press, New York, 2015), Mark Weisbrot calls this bluff effectively and comprehensively. He points out: “Behind almost every prolonged economic malfeasance there is some combination of outworn bad ideas, incompetence and the malign influence of powerful special interests”. Unfortunately, such nightmares are prolonged and even repeated in other places because even if the lessons from one catastrophe are learned, they are typically not learned, or at least not taken to heart, by “the people who call the shots”.

The costs of this failure are huge for the citizenry: for workers who face joblessness or fragile, insecure employment at low wages; for families whose access to essential goods and social services is reduced; for farmers and other small producers who find that their activities are simply not financially viable; for those thrown into poverty because of crisis and instability or those facing greater hunger; and for almost everyone in society when their lives become more insecure in various ways. Many millions of lives across the world have been ruined because of the active implementation of completely wrong and unnecessary economic policies. Yet, because

the blame is not apportioned where it is due, those who are **culpable** for this not only get away with it but are able to continue to impose their power and expertise on economic policies and on governing institutions. For them, there is no price to be paid for failure.

Weisbrot illustrates this with the telling example of the still unfolding economic tragedy in the eurozone. He describes the design flaws in the monetary union that meant that the European Central Bank (ECB) did not behave like a real central bank to all the member-countries because when the crisis broke in 2009-10 it did not behave as a lender of last resort to the countries in the European periphery that faced payment difficulties. Instead, the most **draconian** austerity measures were imposed on these countries, which simply drove them further into economic decline and made their debt burdens even more burdensome and unpayable.

It took two years for ECB Governor Mario Draghi to promise to “do whatever it takes to save the euro”, and he did this when the crisis threatened to engulf the entire European Union and force the monetary union to collapse. When the financial bleeding was stemmed, it became glaringly evident that the European authorities, and the ECB, could have intervened much earlier to reduce the damage in the eurozone periphery through monetary and fiscal policies. In countries with their own central banks, such as the United States and the United Kingdom, such policies were indeed undertaken, which is why the recovery also came sooner and with less pain than still persists in parts of Europe.

Weisbrot notes that this entire episode should have provided “a historic lesson about the importance of national and democratic control over macroeconomic policy—or at the very least, not ceding such power to the wrong people and institutions”. Unfortunately, the opposite seems to be the case, with the media and others drawing lessons that were very much in terms of blaming the victim. Indeed, Weisbrot makes an even stronger point when he says that this crisis was used by vested interests (including those in the International Monetary Fund, or IMF) to force governments in these countries to implement economic and social reforms that would otherwise be unacceptable to their electorates.

101. According to the passage, which among the following is the appropriate **theme** of the passage?

- (a) Effects of imperfect planning of monetary policy by European central bank.
- (b) Wrong decisions in economic and social policies leading to financial weakening of European countries.

- (c) Declining Economic growth and increasing debt burdens.
- (d) Consequences of the implementation of wrong and unnecessary economic policies.
- (e) Importance of national and democratic control over macroeconomic policy.

102. What does the author mean by the phrase “they let economic policies off the hook”?

- (I) There are certain economic establishments that feel that their economic strategies are not under any trouble as these economic slowdown and their subsequent results are beyond their control.
 - (II) The countries which feel that their economic policies have got nothing to do with their poor economic progress, blame certain inevitable forces outside the system for their economic conundrum.
 - (III) Those economic forces which feel that their policies and strategies are not the relevant reasons for their negative economic growth also negate the possibilities of any economic intervention as a preventive measure.
- (a) Only (I) is true
 - (b) Only (II) is true
 - (c) Both (I) and (II) are true
 - (d) Both (II) and (III) are true
 - (e) All are true

103. According to the passage, how the implementation of imperfect economic policy affected the eurozone?

- (a) Decrease in good quality job.
- (b) The debt burden turned unpayable.
- (c) Their central bank failed to dispense any financial help to Eurozone countries.
- (d) Instability in technological and business investments.
- (e) All of the above

104. According to the passage, what is/ are the cause(s) of the economic misdeeds?

- (a) The inability of fabricating an efficient policy that would not affect the material instability of people.
- (b) The pressure of improving the economic growth.
- (c) The obsolete plans for fabricating the economic policy.
- (d) Both (a) and (c) are correct.
- (e) All of the above.

105. What suggestion has been mentioned by Weisbrot for emerging from economic crises?

- (a) Effectively executing the social and economic policies in time by authorities.
- (b) Implementing the economic policies rightly in all the states of the country.

- (c) The central bank must act as lender of last resort to all the countries.
- (d) There must be some compensation measures for the failure.
- (e) All of the above

Directions (106): Choose the word/group of words which is most similar in meaning to the word/group of words printed in bold as used in passage.

106. Draconian

- (a) innate
- (b) inhibit
- (c) stringent
- (d) demure
- (e) vex

Direction (107-112): Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

The US government's decision to grant India the licence for the export of 22 Guardian drones through the US foreign military sales programme will address gaps in India's maritime surveillance capabilities. However, India's quest for armed drones in the absence of a defined strategy for the use of unmanned aerial vehicles (UAVs) has created misconceptions about their utility for India in conducting cross-border strikes or “surgical strikes” against Pakistan-based terrorists.

The Guardian drones, manufactured by General Atomics, will complement India's maritime surveillance aircraft at sea in intelligence, surveillance and reconnaissance, helping boost battlespace awareness and target acquisition or guide forces on suspected surface threats. The additional capability will free up the navy's Boeing P-81s for anti-submarine warfare (ASW). This will be critical given the increasing forays of Chinese submarines in the India Ocean region and India's capacity-deficit in ASW.

India's pursuit of armed drones has led it to order 10 Heron TP drones from Israel and this will likely be the highlight of Indo-Israeli defence cooperation against the backdrop of Prime Minister Narendra Modi's visit to Israel. The armed drones were purchased in 2015 for a reported \$400 million. These will be India's first armed drones, significantly expanding the aerial offensive capabilities of the Indian Air Force (IAF).

The Israel Aerospace Industries' (IAI's) Heron TPs have an endurance of upwards of 30 hours, maximum take-off weight of 5,300kg and a potential weapons/mission payload of up to 1,000kg. They can be used for both surveillance as well as combat and support roles, and can carry air-to-ground missiles to take out hostile targets. The IAF currently operates a fleet of IAI-made Harpy self-destructing anti-radar drones and IAI searcher UAVs and indigenously built Nishant drones for surveillance and intelligence-gathering.

The use of UAVs permits Indian policymakers to exercise the use of force while substantially lowering the risk to military personnel and acts as a force multiplier in enhancing surveillance capabilities. This expands the variety of missions the Indian Armed Forces can conduct.

The use of unmanned systems such as drones removes potential political costs and makes it easier for policymakers to opt for "clean and quick" use of military force rather than the slow and often difficult political and diplomatic options. In India's case, the Indian military hopes that armed UAVs will give it the capability to conduct symbolic retaliatory attacks against Pakistan-based terrorists while limiting the violation of Pakistani sovereignty and hopefully avoiding any escalatory spiral. The ideas being promulgated within the Indian military and strategic community on the successful use of armed drones for "surgical strikes", etc., is contingent on operating in a non-existent air defence environment. Put simply, if manned combat aircraft can't get to the target, neither can armed drones. The idea that New Delhi could push armed drones in a Pakistani air defence environment to conduct surgical strikes against terrorists is **ludicrous**. Reality is more constrained and requires a nuanced understanding of the operating environment.

Modern air defences are more dangerous and effective than ever before. Case in point, the US military has rarely used drones in defended or contested air spaces. Armed drones against targets in Afghanistan or Yemen have succeeded as these have undefended air spaces or in Syria and Pakistan because air defences have not been employed to target them.

To mitigate the threat to manned and unmanned aircraft from air defences, India needs long-range stand-off weapons systems along with the requisite advances in intelligence, reconnaissance and surveillance. The under-development air-launched Brahmos for the Sukhoi-30 MKI or the 300km SCALP air-to-ground cruise missiles being acquired for the yet-to-be-inducted Dassault Rafale give India more credible retaliatory options in Pakistan-occupied Kashmir vis-à-vis vulnerable and expensive armed UAVs.

This is not to say that armed UAVs will have no role in transforming the way India fights wars in the future with technological advances in automation, miniaturization, stealth, and other fields. But such capabilities, if they are to be operationalized affordably in India, require the adoption of evolved **doctrines** and specific operating concepts that enable in-tandem operations involving manned and unmanned assets. The adoption of unmanned assets for adjunct missions also potentially allows for the more efficient use of limited manned platforms.

While reports indicate the existence of a "project Ghatak", managed by the Aeronautical Development Agency and the Defence Research and Development Organization, for a stealth unmanned combat aerial vehicle (UCAV), there is little indication so far from the IAF regarding the strategic/tactical employment of UCAVs. The IAF's "Air Power Doctrine", last published in 2012, failed to once mention "unmanned" or "drone". The IAF's "Indigenization Roadmap 2016-2025" barely mentions UAVs apart from the fact that the IAF needs to possess highly autonomous strike capabilities against the full spectrum of potential targets.

Given India's complex security challenges, UAVs have the potential to play a role in enabling the Indian military not only in fighting wars but also in intelligence, reconnaissance and surveillance, and deterring cross-border terrorist attacks. Currently, however, the integration of unmanned assets, especially armed drones, with manned fighters and combined arms concepts remains at a **nascent** stage.

107. According to the passage, what are the advantages for India of having the UAV imported from USA?

- (I) It will complement India's maritime surveillance aircraft at sea in intelligence, surveillance and reconnaissance.
 - (II) It will prevent the cross-border terrorist attacks.
 - (III) It will remove the potential political costs.
 - (IV) It will release the navy's Boeing P-81s for anti-submarine warfare (ASW).
- (a) Only (I) is true
 - (b) Both (I) and (III) are true
 - (c) (I), (III) and (IV) are true
 - (d) (II), (III) and (IV) are true
 - (e) All are correct

108. Which of the following is/are the features of The Israel Aerospace Industries' (IAI's) Heron TPs?

- (a) It can be used for surveillance and intelligence-gathering.
- (b) It has maximum take-off weight of 5,300kg and a potential weapons/mission payload of up to 1,000kg.
- (c) It can carry air-to-ground missiles to take out hostile targets.
- (d) Both (b) and (c) are correct
- (e) All are correct

109. What does the author mean the phrase "**Modern air defences are more dangerous and effective than ever before**"?

- (I) It is very difficult to carry out operations either with manned combat aircraft or armed drones in those countries which have got better air defences.

- (II) US military have effectively used their armed drones in countries like Afghanistan or Syria which have defenseless air spaces whereas they have hardly succeeded in countries where air defence is tight.
- (III) Countries are now more advanced in tackling any kind of possible attacks even if it is through armed drones as they have secured their air better than ever before.
- (a) Only (I) is correct
 (b) Only (II) is correct
 (c) Both (I) and (III) are correct
 (d) Both (II) and (III) are correct
 (e) All are correct

110. Which of the following sentences go(es) with the theme of the passage?

- (I) Unmanned aerial vehicles have a major role to play for economy and security purposes.
- (II) India requires impasse weapon system to reduce the threat to manned and unmanned aircraft from air defences.
- (III) India has imported the armed drones from Israel and USA for security purposes.
- (a) Only (I) is correct
 (b) Only (II) is correct
 (c) Both (I) and (III) are correct
 (d) Both (II) and (III) are correct
 (e) All are correct

111. Which of the following is the most appropriate **title** for the passage?

- (a) The IAF's "Indigenization Roadmap 2016-2025"
 (b) The "clean and quick" use of military force.
 (c) Cross-border strikes or "surgical strikes" against Pakistan
 (d) India's quest for Armed drones
 (e) India's capacity-deficit in ASW(anti-submarine warfare).

Direction (112): Choose the word/group of words which is most similar in meaning to the word/group of words printed in bold as used in passage.

112. Ludicrous

- (a) veracity (b) preposterous
 (c) winsome
 (d) vociferous (e) detract

Directions (113-117): In each of the following paragraph, there are two blank spaces. Below each paragraph, there are five options and each option consists of two words which can be filled up in the provided blanks respectively to make the paragraph grammatically and coherently correct. Find the most appropriate set of words that fit into the blanks contextually.

113. Air pollution in Delhi is being recognised as one of the biggest public policy challenges India has faced in recent times. Everybody agrees that there is need for _____ action and immediate intervention. However, we see few signs of such an intervention on the ground. The primary reason for our inability to respond swiftly and in a coordinated manner is the multiplicity of actors involved and the lack of _____ on roles.

- (a) crucial, obscurity (b) instant, importance
 (c) drastic, clarity (d) extreme, ambiguity
 (e) harsh, equivocal

114. The Russian cyberattack has been _____ as the "most destructive and costly in history". It is hard not to wonder whether the Kremlin has outlived its utility in relation to the White House. If not a faint echo of the Cold War, the climate is frosty again. This is the quirky _____ to geopolitics.

- (a) destined, commencement
 (b) accused, abrogation
 (c) compelled, reversal
 (d) condemned, facet
 (e) detested, denouement

115. History, that had been declared ended, appears to have started all over again for the U.S. on November 8, 2016 when Mr. Trump won the presidency. The _____ punditry in America that missed the revolt around them initially blamed Mr. Trump's victory on the lack of education, racism and misogyny of his supporters. But the revival of the cult of liberal capitalism appeared _____; it needed visions of a demon at the door.

- (a) mainstream, elusive
 (b) exceptional, enticing
 (c) heterodox, subtle
 (d) cynosure, fugitive
 (e) conventional, encountering

116. According to another study _____ in the journal Psychological Science, women in countries with the highest degree of gender inequality pursue STEM careers in science and technology because they want the "clearest possible" path to financial success. This clear path often means _____ a science- or math-based profession.

- (a) suppressed, ensuing (b) published, pursuing
 (c) advertised, preceding (d) proclaimed, covering
 (e) announced, exploring

117. The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 or FRA was a _____ legislation that sought to restore the rights of forest dwellers over land, community forest resources and habitats, and the governance and management of forests. Prior to that, most forest dwellers in the country were denied rights to their _____ forestlands since colonial times.

- (a) landmark, traditional
- (b) turning, prescribed
- (c) vestige, rare
- (d) compendium, weaving
- (e) featured, divergent

Directions (118-120): Given below are five sentences among them three sentences are coherently placed in the precise sequence of the paragraph. Rearrange the jumbled sentences to make the paragraph contextually correct and answer the questions that follow.

- (A) Nectome promises to preserve the brains of terminally ill people in order to turn them into computer simulations—at some point in the future when such a thing is possible.
- (B) It's a startup that's easy to mock. Just beyond the mockery, however, lies an important reminder to remain skeptical of modern artificial intelligence technology.
- (C) Nectome's biggest problem, however, isn't primarily ethical.
- (D) That macabre proposition has resulted in lots of publicity for Nectome, which predictably got lumped together with earlier efforts to deep-freeze millionaires' bodies so they could be revived when technology allows it.
- (E) The idea behind Nectome is known to mind uploading enthusiasts (yes, there's an entire culture around the idea, with a number of wealthy foundations backing the research) as "destructive uploading": A brain must be killed to map it.

118. The paragraph consists of five statements among which three of them are in their appropriate positions. Identify the pair that needs to be rearranged (or, exchanged) to make the paragraph contextually correct?

- (a) A-E (b) C-E (c) B-D
- (d) A-C (e) C-D

119. Which among the following sentences should consecutively follow statement (A) **"Nectome promises to preserve the brains of terminally ill people in order to turn them into computer simulations—at some point in the future when such a thing is possible"** after the rearrangement?

- (a) A (b) C (c) B
- (d) D (e) E

120. Which among the following sentences should contextually follow the last sentence of the paragraph after the rearrangement?

- (a) The company has developed a way to embalm the brain in a way that keeps all its synapses visible with an electronic microscope.
- (b) It's not particularly smart, and its memories aren't complex, but it's not "uploadable" yet.
- (c) I'd argue that a truly intelligent artificial entity—intelligent like a person, with all the versatility it implies—would need to run a relatively faithful reconstruction of the brain.
- (d) Different kinds of intelligence than ours are possible, and they can be better than humans at some tasks, like playing chess or even safely driving a vehicle.
- (e) So far, even the most extreme optimists of mind uploading see it only in the distant future.

Directions (121-125): In the question given below four sentences are given which are grammatically correct and meaningful. Connect them by the word given above the statements in the best possible way without changing the intended meaning. Choose the best possible combination as your answer accordingly from the options to form a correct, coherent sentence.

121. ALTHOUGH

- (A) The declines in the four top-tier cities contrast with a steady rise in prices in China's vast spread of smaller cities.
 - (B) Price growth in tier-3 cities in general was unchanged from January, the NBS said, without giving details.
 - (C) The majority of the 70 cities surveyed by the NBS still reported monthly price increases for new homes.
 - (D) The number of cities reported for increasing monthly prices for new homes has been dropped from January's 52 to Forty-four cities in February.
- (a) only A-B (b) only B-C
 - (c) only C-D (d) Both A-B and C-D
 - (e) None of these

122. PROVIDED

- (A) Human Rights Watch said it has documented numerous allegations of torture and ill-treatment in Saudi prisons and detention centres in recent years.
- (B) Financial measures now lead to action to seize the assets in Russia of those who have committed human rights abuses or other serious crimes.

- (C) Those who have violated human rights or caused other serious crimes in Russia, they will have an impact.
- (D) Non-governmental organizations to declare detailed financial information are likely to have a chilling effect on civil society, two leading international rights bodies.
- (a) only A-B (b) only B-C
(c) only C-D (d) Both A-B and C-D
(e) None of these

123. ALONG WITH

- (A) Army Chief General Bipin Rawat today lauded China's military prowess, and appreciated its intend on military modernisation.
- (B) Last week, China unveiled its largest defence spending increase in three years, setting an 8.1 per cent growth target this year, fuelling an ambitious military modernisation programme and making its neighbours nervous.
- (C) While China ensured that their economy must rise, they did not forget the rise of their military power.
- (D) General Bipin Rawat praised the neighbouring country China for its focus on economic rise.
- (a) only A-D (b) only B-C
(c) only A-B (d) Both A-B and C-D
(e) None of these

124. SO THAT

- (A) You can give your equity fund investments more time to grow in the market.
- (B) You can increase your large-cap exposure by adding to your SBI Bluechip fund.
- (C) When you need money in 3 years, use your debt funds as your first choice for withdrawals.
- (D) The fact is both your investment time-frames are relatively short-term in nature.
- (a) only A-D (b) only C-A
(c) only D-C (d) Both D-A and D-B
(e) None of these

125. UNLESS

- (A) The gap in alertness and execution between green and white over the past two months has been almost painful to behold.
- (B) England should absorb the harsh lessons of their worst finish in 31 years so as to telecast an improved performance in Japan.
- (C) Never before in the professional era have they had a leaner campaign; not even at their lowest ebb at the 2015 World Cup did they look so collectively wooden.
- (D) The chances of England prospering in Japan are on a par with Eddie Jones holidaying in Wales in the near future.

- (a) only A-D (b) only C-A
(c) only B-D (d) Both D-A and B-D
(e) None of these

Directions (126-130): In the following questions, a phrase/idiom is given in bold whose meaning can be inferred from one of the highlighted words/phrases of four sentences given below each phrase. Choose the most appropriate meaning of the phrase among the four options that can also be replaced by the given phrase without altering the meaning of the sentence. If none of the sentences conveys the correct meaning, choose (e) i.e., "None of the above" as your answer.

126. Eager Beaver

- (a) Don't worry about all the extra work, June is such an **enthusiast** that she usually does everyone's work.
- (b) They sat in an **apathetic** circle, waiting for Old Jerry to come.
- (c) Who can tell what are the limits which the Master of worlds has set to **mundane** calamity?
- (d) He was always an **optimist**, and he always made everyone feel that everything was all right.
- (e) None of the above

127. Bolster up

- (a) It is almost impossible to **conjecture** what will be the basis of the settlement.
- (b) We **gather** this simply from the opinions we had previously formed of the authors.
- (c) We need to **reinforce** that painting with another nail before it falls off the wall.
- (d) The price he would have given for a talk with Ann would not have been easy to **compute**.
- (e) None of the above

128. Embark on

- (a) She could not understand how Kingozi managed to **survive** ten hours day after day.
- (b) I want to go back to school for a business degree, and I plan to **initiate** that process this fall.
- (c) Our eyes are shut to the damning facts which **confront** us on every side.
- (d) Spirits differ; some **yield** to the power of wisdom, while others are too strong.
- (e) None of the above

129. Fallout

- (a) If I had known what the **repercussion** would be, I would not have told them about my new business venture.
- (b) It was rather a frightful place to go into in search of the **source** of a shriek.
- (c) It seemed as if God intended to **bereave** us of her, for he brought her even to death's door.
- (d) I have no interest distinct from that which has a tendency to **meliorate** the situation of mankind.
- (e) None of the above

130. Go over

- (a) During the processing a thick liquid should **exude**, covering the pimientos.
- (b) No one has seen him **shed** a tear, or heard him utter a complaint.
- (c) The purpose of the pear-shaped apertures was to enable the salt fumes to **percolate** freely around the vessels being fired.
- (d) It was for them to **consider** how far they were justified in complying with his request.
- (e) None of the above

Directions (131-135): In the question given below, a sentence is divided into five parts, out of which certain parts are highlighted which may or may not be grammatically correct. Choose the grammatically correct part out of the highlighted parts of the sentence as your answer. If all the highlighted parts are grammatically correct but the parts which are not highlighted contain some grammatical errors, choose the option stating, "None of these" as your choice. If all the given parts of the sentence are grammatically correct and provide the contextual meaning to the sentence, choose option (e) i.e. "No error" as your answer.

- 131. At the core of the potential confrontation (A)/and the projected nuclear proliferation (B)/is the intra-religion factors, (C)/that has been to one major reason for (D)/the surge of the ISIS, a Sunni outfit. (E)**
- (a) A (b) C (c) D
(d) None of these (e) No error

- 132. The Slow Movement about (A)/slowing down to savor (B)/what we eat, how we travel, (C)/how we consume, how we produce and, (D)/most importantly, how we live. (E)**
- (a) B (b) D (c) E
(d) None of these (e) No error

- 133. Many of us has become (A)/so obsessed with losing time (B)/that we desperately try (C)/to save every last scrap off it (D)/in order to get our things accomplished. (E)**

- (a) A (b) B (c) D
(d) E (e) No error

- 134. It is no disrespect to the departed (A)/to suggest that there was not another man (B)/in the world last Wednesday whose death (C)/could have saddened so many hearts (D)/in so many lands as Stephen Hawking. (E)**

- (a) A (b) C (c) D
(d) None of these (e) No error

- 135. The Parsis have become an integral part (A)/of Indian society after 12 centuries in the country (B)/and the Tibetans may well followed suit unless (C)/China collapses under its own authority weight and (D)/the escapees can return to its motherland. (E)**

- (a) B (b) C (c) D
(d) E (e) No error

Directions (136-140): Following questions have words given in bold each having five alternatives. Choose the word among the given options which has either most similar or most opposite meaning to the bold word.

136. STRIVE

- (a) egregious (b) Covet (c) clandestine
(d) salubrious (e) atypical

137. BEMUSED

- (a) meticulous (b) surfeit (c) pervasive
(d) engrossed (e) Fuddled

138. BEGUILE

- (a) subversive (b) voracious (c) vicious
(d) phlegmatic (e) inveigle

139. EMBARGO

- (a) prohibition (b) philistine (c) oasis
(d) ostentatious (e) aberrant

140. EXCULPATE

- (a) Ameliorate (b) Condemn (c) Coagulate
(d) Torpor (e) Satiare

Solutions

REASONING ABILITY

Directions (1-3):

AYELPRS

1. (a); 2. (a); 3. (b);

Directions (4-6):

7A6P&R\$4YQ%T@39SIO99JLEU*K#3

STEP I: 7A6P&\$4YQ%@39SIO99JLEU*#3K
RT

STEP II: 7A6P&\$4YQ%@39SIO99JLEU*#3K
RT

STEP III: A7P6&\$Y4Q%@3S9IO9J9LEU*#K3
RT

4. (b); 5. (b); 6. (a);

Directions (7-9):

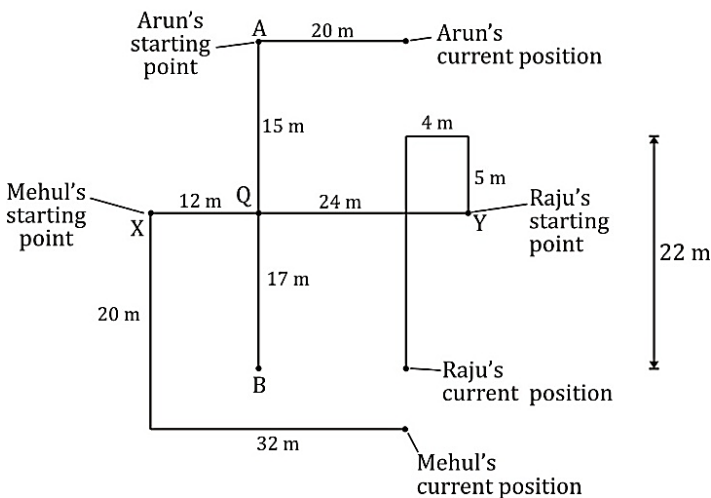
Boxes	Colours
P	----
----	----
S	Purple
----	----
R	----
V	Blue
----	Orange
----	----
----	----
U	----
----	Green

7. (b); 8. (c); 9. (d);

10. (e); There are Five meaningful words- Fair, Bowl, Blow, Cone, Once, etc

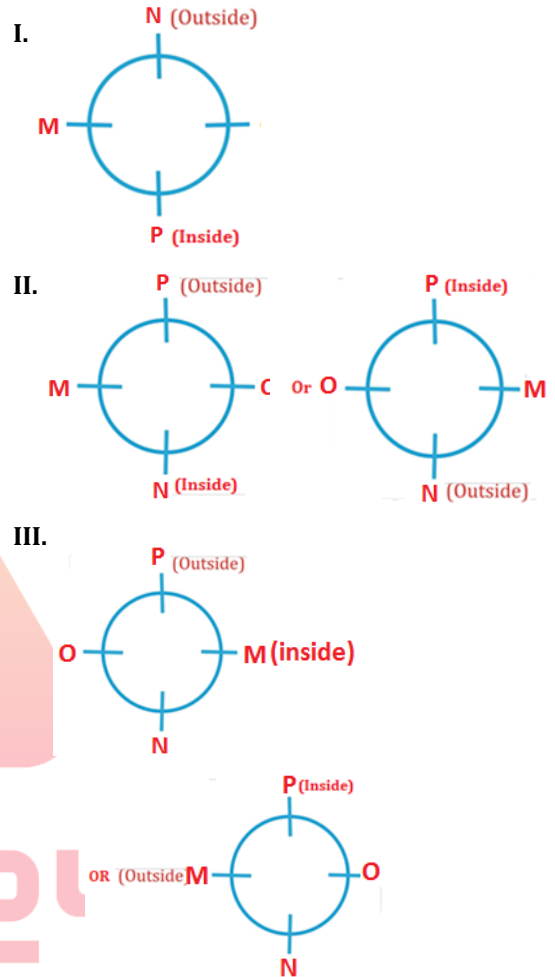
11. (b);

12. (c);



13. (c); 14. (c); 15. (a);

16. (c);



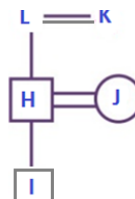
I, II or III statement alone are sufficient to conclude that M, N, O and P are all not facing to centre of table.

17. (c); From II and III-

6. A
5. E
4. C
3. D
2. B
1. F

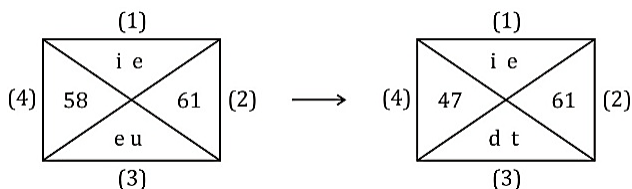
It is clear that F is living on the Ground floor

18. (d);



From statements II and III, I is the youngest because G is not youngest.

Directions (19-21):



19. (e); Diet, edit, tide, tied.

20. (b);

21. (c);

Directions (22-24):

In this new pattern input output question only one word and one number is arranged in each step.

Let us understand the logic behind it- In each step the words and numbers are arranged from the left end.

For words- The word which comes first according to alphabetical series is arranged first and different arrangement is used in different step.

Step 1 and 2- first and second letter are interchanged and third and fourth letter are interchanged

Step 3 and 4- second and fourth letter are interchanged and rests are same.

Step 5- First letter is unchanged, second letter is shifted to fourth place, third letter is shifted to second place, fourth letter is shifted to third place.

For numbers- Numbers start arranging as the highest number is arranged in 1st step then second highest number in second step and so on from left end after each word. And in the final step all the numbers are arranged in increasing order from left end.

Input- 54 roll 39 back 87 25 cash seat 46 beat

Step I- abkc 87 54 roll 39 25 cash seat 46 beat

Step II- ebta 54 abkc 87 roll 39 25 cash seat 46

Step III- chsa 46 ebta 54 abkc 87 roll 39 25 seat

Step IV- rllo 39 chsa 46 ebta 54 abkc 87 25 seat

Step V- sate 25 rllo 39 chsa 46 ebta 54 abkc 87

22. (c);

23. (c);

24. (b);

25. (b); Even number is followed by an odd prime number
 so =6+5= 11
 Then 1 row - 11 2
 Odd number is followed by an even number so =
 11*2=22 (resultant of first row)
 In row 2 Odd number is followed by a perfect
 square so =11-4 =7
 Then 2 row- 7 3
 Odd number is followed by an odd number so = 7
 +3 = 10(resultant of second row)
 So, the sum of both row = 22 + 10 = 32

26. (b); Even number is followed by an prime odd number
 so =14+ 7 = 21
 The row is 21 5
 Odd number is followed by an another odd
 number so =21 +5 = 26(resultant of 1 row)
 The resultant of the rows is 44 so the sum of
 second row= 44- 26 = 18
 Even number is followed by X and X is followed by
 6
 When X = 9, then this condition can be satisfied.

27. (d); Odd number is followed by a perfect square so =7-
 4= 3
 Odd number is followed by an even number so = 3
 *8 = 24(resultant of 1st row)
 Odd number is followed by a perfect square so
 =11- 9 = 2
 Even number is followed by an odd prime number
 so = 2 +13 =15(resultant of 2nd row)
 So, the difference is = 24 - 15 = 9

Directions (28-30):

Doctors	Meeting hour
Ophthalmologist	7:00 - 8:30 am
Psychiatrist	8:30 - 10:00 am
General physician	10:00- 12:30 am
Orthopedic surgeon	12:30- 3:00 pm
Dentist	3:00- 6:00 pm

28. (d); 29. (b); 30. (d);

Directions (31-33):

FLOOR	FLAT-1	FLAT-2	FLAT-3
THIRD	L	R	P
SECOND	O	K	M
FIRST	Q	A	N

or

FLOOR	FLAT-1	FLAT-2	FLAT-3
THIRD	L	R	P
SECOND	O	A	M
FIRST	Q	K	N

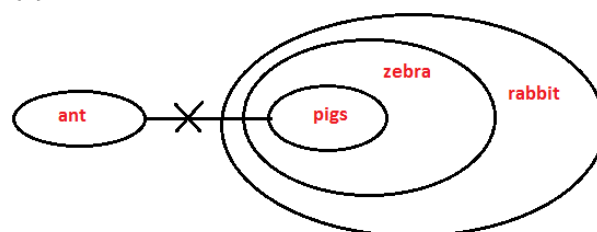
31. (d);

32. (a);

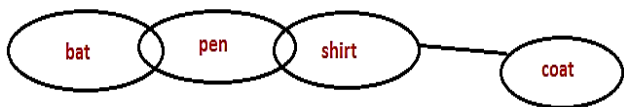
33. (c);

Directions (34-37):

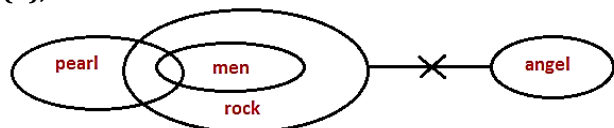
34. (b);



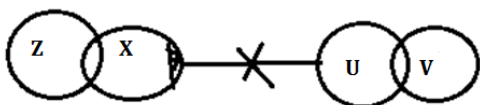
35. (a);



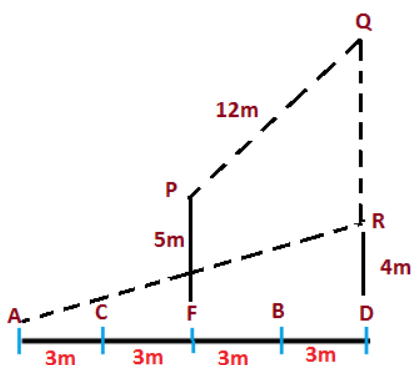
36. (b);



37. (c);



Directions (38-40):



38. (d);

39. (b);

40. (c);

41. (a); In the statement it is given that army should be deployed to rehabilitate the people displaced due to earthquake. It means that army can be used for purposes other than war also. So, assumption I is implicit. Assumption II is not implicit because the word 'only' is making it baseless as there may be some other measures which can rehabilitate the displaced victims of earthquake.

42. (b); A child can learn before he/she turns five. So, assumption I is not implicit. Some schools admit children who are below five years of age, so government gives that advertisement. So, assumption II is implicit.

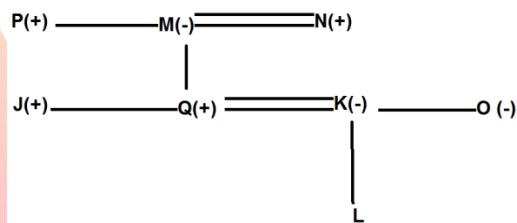
43. (b); Course of action I does not follow due to the words 'all' and 'immediate'. Course of action II follows because a system should be implemented to certify the quality of tiffin provided by the school.

44. (e); Both the actions follow because adequate police force should be deployed and vehicles on the road should be advised a diversion to avoid traffic congestion.

Direction (45-48):

Step 1.

Floor	Person	Blood group	Grade
8	P	AB+	A
7	O	A+	B
6	N	AB-	E
5	M	O+	F
4	L	B+	C
3	K	A-	D
2	J	O-	G
1	Q	B-	H



45. (a);

46. (d);

47. (c);

48. (d);

49. (e); (a) does not follow because the NCR phenomenon can't be extrapolated to "most of the big cities". b) and d) are probable consequences. c) shows us the other side. e) follows from the mention of "slump in home sales" and scope for "price correction".

50. (a); Note that the statement conveys to us that the delay in compensation is now a thing of the past. We can't infer about the specifics- 'insurance company' in statement (c) and 'IRCTC' in statement (d).

QUANTITATIVE APTITUDE

51. (e); $(422 + 478) \div ? \approx 60 \Rightarrow ? \approx \frac{900}{60} = 15$

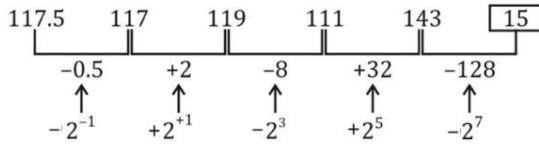
52. (d); $? \approx \sqrt{256} \times 19 + 8 \times 14$
 $? \approx 16 \times 19 + 8 \times 14 = 416$

53. (b); $16 \times 24 + ? \approx 19 \times 32$
 $? = 608 - 384 = 224$

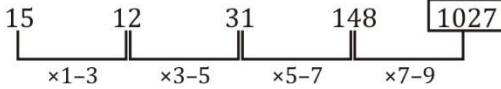
54. (c); $28 \times 16 \approx ? \times 14 + 70$
 $448 \approx ? \times 14 + 70$
 $? = \frac{378}{14} = 27$

55. (b); $272 + 190 + 84 \approx ? \times 13 \times 6$
 $\Rightarrow ? \approx \frac{546}{13 \times 6} = 7$

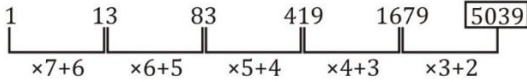
56. (c);



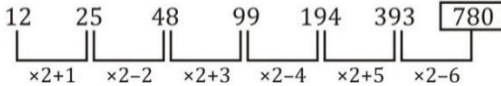
57. (e);



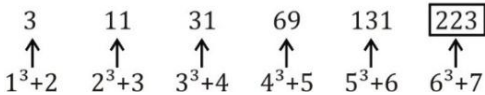
58. (b);



59. (a);



60. (d);



61. (b); Number of tickets sold to males by C3 and C6 theatre together

$$= (80 - 20) \times \frac{2}{5} + (80 - 12) \times \frac{9}{17}$$

$$= 60 \times \frac{2}{5} + 68 \times \frac{9}{17} = 24 + 36 = 60$$

Number of tickets sold to females by C3 and C5 theatre together

$$= (80 - 20) \times \frac{3}{5} + (80 - 8) \times \frac{4}{9}$$

$$= 60 \times \frac{3}{5} + 72 \times \frac{4}{9} = 36 + 32 = 68$$

$$\text{Required ratio} = \frac{60}{68} = \frac{15}{17}$$

62. (d); Number of female who bought ticket from C2 and C4 theatre together

$$= (80 - 10) \times \frac{4}{7} + (80 - 14) \times \frac{5}{11}$$

$$= 40 + 30 = 70$$

Number of male who bought ticket from C5 theatre

$$= (80 - 8) \times \frac{5}{9} = 72 \times \frac{5}{9} = 40$$

$$\text{Required \%} = \frac{70-40}{40} \times 100$$

$$= \frac{30}{40} \times 100 = 75\%$$

63. (c); Total revenue earns by C4 theatre

$$= 14 \times 150 + (80 - 14) \times \frac{6}{11} \times 200 + (80 - 14) \times \frac{5}{11} \times 250$$

$$= 2100 + 66 \times \frac{6}{11} \times 200 + 66 \times \frac{5}{11} \times 250$$

$$= 2100 + 7200 + 7500 = 16800$$

64. (b); Number of male who bought ticket from C1, C2 and C3 together

$$= (80 - 15) \times \frac{6}{13} + (80 - 10) \times \frac{3}{7} + (80 - 20) \times \frac{2}{5}$$

$$= 30 + 30 + 24 = 84$$

$$\text{Required average} = \frac{84}{3} = 28$$

65. (a); Number of males who bought ticket from C4, C5 and C6 together

$$= (80 - 14) \times \frac{6}{11} + (80 - 8) \times \frac{5}{9} + (80 - 12) \times \frac{9}{17}$$

$$= 36 + 40 + 36 = 112$$

Number of females who bought ticket from C4, C5 and C6 together

$$= (80 - 14) \times \frac{5}{11} + (80 - 8) \times \frac{4}{9} + (80 - 12) \times \frac{8}{17}$$

$$= 30 + 32 + 32 = 94$$

$$\text{Required difference} = 112 - 94 = 18$$

66. (b); (i) $2x^2 - 5x + 3 = 0$

$$2x^2 - 2x - 3x + 3 = 0$$

$$2x(x - 1) - 3(x - 1) = 0$$

$$(x - 1)(2x - 3) = 0$$

$$x = 1, \frac{3}{2}$$

(ii) $3y^2 - 4y + 1 = 0$

$$3y^2 - 3y - y + 1 = 0$$

$$3y(y - 1) - 1(y - 1) = 0$$

$$(3y - 1)(y - 1) = 0$$

$$y = \frac{1}{3}, 1$$

$$x \geq y$$

67. (c); (i) $x^2 - 17x + 72 = 0$

$$x^2 - 9x - 8x + 72 = 0$$

$$x(x - 9) - 8(x - 9) = 0$$

$$(x - 8)(x - 9) = 0$$

$$x = 8, 9$$

(ii) $y^2 - 27y + 180 = 0$

$$y^2 - 12y - 15y + 180 = 0$$

$$y(y - 12) - 15(y - 12) = 0$$

$$(y - 15)(y - 12) = 0$$

$$y = 15, 12$$

$$y > x$$

68. (b); (i) $(x - 12)^2 = 0$

$$x - 12 = 0$$

$$x = 12$$

(ii) $y^2 - 21y + 108 = 0$

$$y^2 - 12y - 9y + 108 = 0$$

$$y(y - 12) - 9(y - 12) = 0$$

$$(y - 9)(y - 12) = 0$$

$$y = 9, 12$$

$$x \geq y$$

69. (e); (i) $2x^2 + 7x + 5 = 0$

$$2x^2 + 2x + 5x + 5 = 0$$

$$2x(x + 1) + 5(x + 1) = 0$$

$$(2x + 5)(x + 1) = 0$$

$$x = \frac{-5}{2}, -1$$

(ii) $3y^2 + 12y + 9 = 0$

$$3y^2 + 9y + 3y + 9 = 0$$

$$3y(y + 3) + 3(y + 3) = 0$$

$$(3y + 3)(y + 3) = 0$$

$$y = -1, -3$$

No relation can be established.

- 70. (b);** (i) $x^2 + 2x - 35 = 0$
 $x^2 + 7x - 5x - 35 = 0$
 $x(x + 7) - 5(x + 7) = 0$
 $(x - 5)(x + 7) = 0$
 $x = 5, -7$
- (ii) $y^2 + 15y + 56 = 0$
 $y^2 + 7y + 8y + 56 = 0$
 $y(y + 7) + 8(y + 7) = 0$
 $(y + 8)(y + 7) = 0$
 $y = -8, -7$
 $x \geq y$
- 71. (b);** Speed of Train 'A' on Tuesday
 $= \frac{450}{2} = 225 \text{ km/hr}$
 Speed of train 'B' on Monday
 $= \frac{450}{3} = 150 \text{ km/hr}$
 Required% $= \frac{225 - 150}{150} \times 100$
 $= \frac{75}{150} \times 100 = 50\%$
- 72. (d);** Speed of train 'B' on Tuesday
 $= \frac{450}{4.5} = 100 \text{ km/hr}$
 Speed of train 'A' on Wednesday
 $= \frac{450}{3} = 150 \text{ km/hr}$
 Average speed $= \frac{2 \times 100 \times 150}{100 + 150} = 120 \text{ km/hr}$
- 73. (a);** Speed of train 'A' on Friday $= \frac{450}{4} \times \frac{160}{100} = 180$
 Speed of train 'B' on Friday
 $= \frac{450}{5} \times \frac{125}{100} = 112.5$
 Required sum of time $= \frac{450}{180} + \frac{450}{112.5}$
 $= 2.5 + 4 = 6.5 \text{ hr}$
- 74. (c);** Speed of train 'A' on Tuesday
 $= \frac{450}{2} = 225 \text{ km/hr}$
 Speed of train 'B' on Wednesday
 $= \frac{450}{1.5} = 300 \text{ km/hr}$
 Required difference $= 300 - 225 = 75 \text{ km/hr}$
- 75. (d);** Required time $= \frac{450}{\frac{450}{2} \times 1.6} = \frac{450}{360} = 1.25 \text{ hr}$
- 76. (a);** From only (A) we can say whether Z is a positive integer or not
 Explanation: - If we look at Statement A, the condition of Z being a positive integer is being satisfied as putting a negative value will give $Z^7 < Z$. Whereas, in the Statement B, putting both negative as well as positive values of Z will satisfy " $Z^8 > Z$ ". So, we conjecture that option 'a' is the correct option.
- 77. (c);** From (A) and (B) together value of $4^{\frac{1}{a}} + 4^{\frac{1}{b}}$ can be find out.
 Explanation: -
 From (A) $\frac{1}{a} + \frac{1}{b} = \frac{6}{5}$
 From (B) $ab = 5$
 So, value of $4^{\frac{1}{a}} + 4^{\frac{1}{b}}$ can be find out.

- 78. (e);** We can't find the answer as we don't know the capacity of men. In statement 'A' and 'B', we are given about the capacity of women and children not about men.
- 79. (e);** We can't find the chance of getting a red ball because we don't know the number of red balls.
- 80. (c);** When taking both statements together $3w = \text{odd number}$ and $2w = \text{Even number}$
 A and B is possible only when w is an integer
 So, both the statements required to answer the question.

Solutions (81-85)

Total number of girls in St. Xavier college and Vijaya college
 $= 210 \times 2 = 420$

Let, Number of boys in St. Xavier college = x

And, Number of boys in Vijaya college = y

ATQ,

$$x + y = 810 \quad \dots (i)$$

$$\frac{2}{3}x + \frac{2}{5}y = 420 \quad \dots (ii)$$

On solving (i) & (ii)

$$x = 360, y = 450$$

Number of girls in St. Xavier college $= \frac{2}{3} \times 360 = 240$

Number of girls in Vijaya college $= \frac{2}{5} \times 450 = 180$

	St. Xavier	Vijaya
Boys	360	450
Girls	240	180

81. (c); Required% $= \frac{180}{240} \times 100 = 75\%$

82. (d); Girls in 'X' college $= 2 \times 320 - 240 = 400$

Total no. of students in 'X' colleges

$$= \frac{125}{100} \times [360 + 240] = 750$$

$$\text{Number of boys in 'X' college} = 750 - 400 = 350$$

83. (d); Required difference

$$= 450 + 180 - 360 - 240 = 630 - 600 = 30$$

84. (b); Number of boys in 'Y' college

$$= \frac{450}{9} \times 13 = 650$$

$$\text{Number of girls in 'Y' college} = \frac{80}{100} \times 180 = 144$$

Total number of students in 'Y' college

$$= 650 + 144$$

$$= 794$$

85. (e); Required% $= \frac{450 - 360}{360} \times 100 = 25\%$

86. (c); 15 men can complete the work in 'X' days

1 men can complete the work in '15X' days

... (i)

21 women can complete the work in (X - 4) days

1 women can complete the work in 21(X - 4) days

... (ii)

And also,

35 men can complete the work in 'Y' days

1 men can complete the work in '35Y' days

... (iii)

63 women can complete the work in 'Y - 4' days
 1 women can complete the work in 63 (Y - 4) days
 ... (iv)

Equate (i) & (iii) and (ii) & (iv)

$$15X = 35Y \Rightarrow \frac{X}{Y} = \frac{7}{3} \Rightarrow Y = \frac{3}{7}X \dots (v)$$

$$21(X - 4) = 63(Y - 4) \Rightarrow X - 4 = 3Y - 12$$

$$\Rightarrow 3Y - X = 8 \dots (vi)$$

Using (v) and (vi)

$$3\left(\frac{3}{7}X\right) - X = 8$$

$$\frac{9X - 7X}{7} = 8 \Rightarrow X = \frac{8 \times 7}{2} = 28$$

- 87. (b);** Let C.P. of A = 2x
 C.P. of B = x
 Total cost price = 3x
 Mark up price = $3x \times \frac{12}{10} = 3.6x$
 ATQ,
 $3.6x - 9 = 3x \times 1.17$
 $\Rightarrow 3.6x - 3.51x = 9 \Rightarrow 0.09x = 9$
 $\Rightarrow x = 100$
 C.P. of article A = 200

- 88. (d);** There are two cases
 1st case:
 1 boy and 4 girls
 probability = $\frac{{}^5C_1 \times {}^4C_4}{{}^9C_5} = \frac{5}{126} \dots (i)$
 2nd case:
 2 boys & 3 girls
 Probability = $\frac{{}^5C_2 \times {}^4C_3}{{}^9C_5} = \frac{40}{126} \dots (ii)$
 Adding equation (i) and (ii)
 Required probability = $\frac{5}{126} + \frac{40}{126} = \frac{45}{126} = \frac{5}{14}$

- 89. (b);** Let, length of train = x m
 And, length, of platform = y m
 ATQ,
 $25 \times \frac{5}{18} = \frac{x+y}{18}$
 $\Rightarrow x + y = 125 \dots (i)$
 And,
 $(25 + 5) \times \frac{5}{18} = \frac{x}{12}$
 $\Rightarrow x = 100 \dots (ii)$
 On solving (i) & (ii)
 y = 25
 Required difference = 100 - 25 = 75

- 90. (d);**
 Satish : Bhavya : Abhishek
 $15 \times 12 : 18 \times (12 - x) : 24(12 - x)$
 $10 : 9 : 12$
 $\Rightarrow \frac{15 \times 12}{18 \times (12 - x)} = \frac{10}{9}$
 $\Rightarrow 12 - x = 9 \Rightarrow x = 3$ month

- 91. (b);** Let present age of Sakshi = x
 ATQ,
 $x = \frac{5}{4}(x - 6) \Rightarrow 4x = 5x - 30 \Rightarrow x = 30$
 Present age of her son = $\frac{30}{5} = 6$ years
 Required ratio = $\frac{30+10}{6+10} = \frac{40}{16} = \frac{5}{2}$

- 92. (d);** Interest earn from scheme 'A' = $\frac{18000 \times 15 \times 2}{100}$
 $= 5400$
 Interest earn from Scheme 'B'
 $= 15000 \left[\left(1 + \frac{18}{100}\right)^2 - 1 \right] = 15000 \left[\frac{3924}{10000} \right]$
 $= 5886$
 Required difference = 5886 - 5400 = 486

- 93. (e);** 1st Alloy ratio Copper : Aluminium
 $2 : 3$
 2nd Alloy ratio Copper : Zinc
 $2 : 7$
 In final alloy ratio is 5 : 3
 Let quantity $\rightarrow 5x$ and $3x$
 Quantity of copper in final alloy
 $= \frac{2}{5} \times 5x + \frac{2}{9} \times 3x = \frac{8x}{3}$
 Quantity of Aluminium = $\frac{3}{5} \times 5x = 3x$
 Required percentage = $\frac{\frac{3x \times \frac{8x}{3}}{3}}{3x} \times 100 = 12.5\%$

- 94. (c);** Time to collide = $\frac{20}{10+5} = \frac{4}{3}$ hr
 1 minute before collision, distance
 $= 20 - \left(\frac{79}{60} \times 5 + \frac{79}{60} \times 10\right)$
 $= 20 - \frac{237}{12} = \frac{1}{4}$ km
 Alternate method
 Relative speed of boats = 5 + 10 = 15 km/hr
 In m/sec
 $15 \times \frac{5}{18} = \frac{25}{6}$ m/sec
 Distance covered in one minute = $\frac{25}{6} \times 60$
 $= 250$ m = $\frac{1}{4}$ km

- 95. (a);** $\frac{\pi r^2 h}{2\pi r h} = \frac{616}{352}$
 $r = 3.5$ m
 $\pi r^2 h = 616 \Rightarrow h = \frac{616}{11 \times 3.5} = 16$ m
 Total S.A. = $2\pi r h + 2\pi r^2 = 2\pi r(h + r)$
 $= 2 \times \frac{22}{7} \times 3.5(3.5 + 16) = 429$ m²

- 96. (b);**
- | | | |
|------------------------------|----------------|------------------------------|
| Zinc | | Zinc |
| $\frac{1}{3}$ | $\frac{5}{13}$ | $\frac{2}{5}$ |
| $\frac{2}{5} - \frac{5}{13}$ | $\frac{5}{13}$ | $\frac{5}{13} - \frac{1}{3}$ |
| $= \frac{1}{65}$ | | $= \frac{2}{39}$ |
| | | $\frac{1}{39}$ |
- Required ratio = $\frac{65}{2} = \frac{3}{10}$

- 97. (c);** Let efficiency of men of first group is M_1 and second group is M_2
 $3M_1 \times 2 = 4M_2 \times 3$
 $M_1 = 2M_2$
 work = $40M_1 \times 8 \times 15$
 According to question
 $40M_1 \times 8 \times 15 \times 2 = 60M_2 \times 4 \times d$
 $d = 80$ days

98. (a); Let speed of boat in still water and speed of stream is x km/hr and y km/hr respectively.

$$\text{ATQ, } \frac{75}{x+y} = \frac{60}{x-y}$$

$$75x - 75y = 60x + 60y$$

$$15x = 135y \Rightarrow x = 9y$$

$$\text{Required percentage} = \frac{10y}{9y} \times 100 = 111\frac{1}{9}\%$$

99. (a); Let length of train and platform be 'L and 'P' respectively

$$1^{\text{st}} \text{ train cross the pole} = 24 \text{ s}$$

$$2^{\text{nd}} \text{ train (20\% faster than first train) Cross the pole} = \frac{24}{6} \times 5 = 20 \text{ s (same length)}$$

$$\text{Time taken to cross platform} = 30 \text{ s}$$

ATQ,

$$\frac{L+P}{30} = \frac{L}{20} \Rightarrow 2P = L$$

$$\frac{L}{P} = \frac{2}{1}$$

100. (d); In 30 min the part of the tank will be filled by both tap = $\frac{30}{36} = \frac{5}{6}$

$$\text{Required tap} = 1 - \frac{5}{6} = \frac{1}{6}$$

$\frac{1}{6}$ part of the tank will be filled by tank A in 10 min.

\therefore tap A will take 60 min.

\therefore tap B will take time to fill the tank

$$= \frac{1}{36} - \frac{1}{60}$$

$$= \frac{1}{90}$$

\therefore Required time = 90 min

ENGLISH LANGUAGE

101. (d); "Consequences of the implementation of wrong and unnecessary economic policies" is the appropriate theme as the passage is about the economic policy failures leading to instability in employment generation and material insecurity to the people. Hence option (d) is the right choice.
102. (e); All the given statements are true as they define the meaning of the phrase as presented by the author.
103. (b); As mentioned in the passage (fifth paragraph), the design flaws in the monetary union in the Eurozone lead to difficulties like unpayable debt burden and decline in economy. Hence sentence (b) is the correct choice.
104. (d); The author has mentioned three reasons behind the economic "combination of outworn bad ideas, incompetence and the malign influence of powerful special interests". Hence both the sentences (a) and (c) are correct.
105. (a); Weisbrot has mentioned, "When the financial bleeding was stemmed, it became glaringly evident that the European authorities, and the ECB, could have intervened much earlier to reduce the damage in the eurozone periphery through monetary and fiscal policies." Hence sentence (a) is the correct choice.
106. (c); **Draconian** means excessively harsh and severe. Hence it has similar meaning to **stringent**. **Innate** means natural. **Inhibit** means restrain. **Demure** means quiet. **Vex** means to confuse or to annoy.
107. (e); All the given sentences are correct in context of the passage. "The Guardian drones, manufactured by General Atomics, will complement India's maritime surveillance aircraft at sea in intelligence, surveillance and reconnaissance", "UAVs have the potential to play a role in enabling the Indian military not only in fighting wars but also in intelligence, reconnaissance and surveillance, and deterring cross-border terrorist attacks.", "The additional capability will free up the navy's Boeing P-81s for anti-submarine warfare (ASW)." "The use of unmanned systems such as drones removes potential political costs".
108. (d); Sentences (b) and (c) are correct while sentence (a) is about Nishant drone. Other two are the features of The Israel Aerospace Industries' (IAI's) Heron TPs.
109. (e); Refer the sixth and seventh paragraphs of the passage, "Modern air defences.....target them". It can be easily inferred that author talks about the existing concern towards the air securities of countries which are vulnerable to attacks. All three statements are related to the facts given in the passage indicating the expression what author means to say. Hence (e) is the correct choice.
110. (d); According to the passage, statements (II) and (III) are correct. Statement (I) does not go in agreement with the passage as it tells about UAV's role in economy which is irrelevant in context of it.
111. (d); The theme of the passage revolves around the import of armed drones by India from USA and Israel. Hence the title 'India's quest for Armed drones' is an appropriate title.

- 112. (b); Ludicrous** means foolish or unreasonable. Hence it has same meaning as **preposterous**. **Veracity** means unwillingness to tell lies.
Winsome means charming in a childlike or naive way.
Vociferous means conspicuously and offensively loud.
Detract means divert or reduce.
- 113. (c); "drastic, clarity"** is the correct set of words that fit perfectly into the provided blanks. Other words fail to give the contextual meaning to the paragraph. Hence option (c) is the correct choice.
Drastic means likely to have a strong or far-reaching effect; radical and extreme.
Obscurity means the state of being unknown, inconspicuous, or unimportant.
Ambiguity means the quality of being open to more than one interpretation; inexactness.
Equivocal means an expression capable of having more than one meaning; a pun.
- 114. (d); "condemned, facet"** is the correct set of words that fit perfectly into the provided blanks. Other words cannot be used as they alter the meaning of the paragraph. Hence option (d) is the correct choice.
Condemned means expressed complete disapproval of; censure.
Facet means a particular aspect or feature of something.
Abrogation means the repeal or abolition of a law, right, or agreement.
Reversal means a change to an opposite direction, position, or course of action.
Detest means dislike intensely.
Denouement means the outcome of a situation, when something is decided or made clear.
- 115. (a); "mainstream, elusive"** is the correct set of words that fit perfectly into the provided blanks. Other words are not suitable in the context of the paragraph. Hence option (a) is the correct choice.
Mainstream means belonging to or characteristic of the mainstream.
Elusive means difficult to find, catch, or achieve.
Enticing means attractive or tempting; alluring.
Heterodox means not conforming with accepted or orthodox standards or beliefs.
Subtle means capable of making fine distinctions.
Cynosure means a person or thing that is the centre of attention or admiration.
Fugitive means quick to disappear; fleeting.
Encountering means meeting (someone) unexpectedly.
- 116. (b); "published, pursuing"** is the correct set of words that fit perfectly into the provided blanks. Other words fail to give the contextual meaning to the paragraph. Hence option (b) is the correct choice.
Pursuing means engaging in (an activity or course of action).
Proclaimed means announced officially or publicly.
Ensuing means happening or occurring afterwards or as a result.
Suppressed means forcibly put an end to.
- 117. (a); "landmark, traditional"** is the correct set of words that fit perfectly into the provided blanks. Other words are not suitable in the context of the paragraph. Hence option (a) is the correct choice.
Landmark means an event or discovery marking an important stage or turning point in something.
Traditional means existing in or as part of a tradition; long-established.
Vestige means a trace or remnant of something that is disappearing or no longer exists.
Compendium means a collection of concise but detailed information about a particular subject, especially in a book or other publication.
Weaving means making (a complex story or pattern) from a number of interconnected elements.
Divergent means tending to be different or develop in different directions.
- 118. (b);** The paragraph is about the opinions on the research regarding developing a technology to turn the brain of terminally ill people into computer simulations. Therefore, the correct sequence of the paragraph is **ABEDC**. As, sentences (A), (B) and (D) are in their appropriate positions hence, **sentences (C) and (E)** need to be rearranged to make the paragraph contextually meaningful. Therefore, **option (b)** is the correct answer choice.
- 119. (c); Sentence (A)** "Nectome promises to preserve the brains of terminally ill people in order to turn them into computer simulations—at some point in the future when such a thing is possible" is describing about an idea or a plan to develop a technology to transform human brain into computer simulations. Besides, **statement (B)** "It's a startup that's easy to mock. Just beyond the mockery, however, lies an important reminder to remain skeptical of modern artificial intelligence technology" is further questioning about the execution of the idea. Hence, after the rearrangement **sentence (B) should follow sentence (A)** to make the paragraph coherent. Therefore, **option (c) i.e., sentence (B)** is the most viable answer choice.
- 120. (a);** The correct sequence of the paragraph after rearrangement is **ABEDC**. Thus, **sentence (C)** "Nectome's biggest problem, however, isn't primarily ethical" is the last sentence in the sequence. As it implies the problems to be faced

by the Nectome company which is not just ethical [**preservation of brain of dead people**] but also the requisition of technology to perform the task of preservation of brain. Thus, the next statement that should follow sentence (C) should be option (a) which is stating about the technology that has been developed to embalm the brain. Hence, **option (a)** is the most suitable choice.

121. (c); **Statements (C) and (D)** can be joined together to form a single coherent sentence using the conjunction "Although". 'Although' is used to express 'in spite of the fact that; even though.' Therefore, the statement thus formed is "**The majority of the 70 cities surveyed by the NBS still reported monthly price increases for new homes although the number has dropped from January's 52 to Forty-four cities in February.**" Hence, **option (c)** becomes the most suitable choice.
122. (b); **Statements (B) and (C)** can be joined together using the phrasal conjunction "**Provided**". 'Provided' is the one that's more often used as a conjunction. It means that one thing happening is dependent on another thing happening. Both the sentences are in the similar context and sentence (B) is dependent on the condition given in statement (C), Therefore the statement thus formed is "**The financial measures now lead to action to seize the assets of Russians provided they have committed human rights abuses or other serious crimes in Russia.**" Hence, option (b) is the most viable answer choice.
123. (a); **Option (a)** is the correct choice. **Statements (A) and (D)** can be combined using the phrasal conjunction "**Along with**". 'Along with' means 'in company with or at the same time as'. Thus, the conjunction 'along with' connects both the sentence and the coherent statement thus formed is "**Army Chief General Bipin Rawat today lauded China's military prowess, saying the neighbouring country, along with its economic rise, also focused on military modernisation.**" All the other given options fail to connect contextually with one another.
124. (b); Only **sentences (C) and (A)** can be combined coherently using the phrase "so that". "**So that**" is used as a subordinate clause to show purpose or to give an explanation. It is used to show an action producing an intended result or a cause producing an effect. Thus, the statement formed is "**When you need money in 3 years, use your debt funds as your first choice for withdrawals so that you can give your equity fund investments more time to grow in the market.**" As all the other combinations fail to make a coherent sentence. Hence, **option (b)** is the correct choice.

125. (c); **Statements (B) and (D)** can be joined together using the conjunction "**Unless**". 'unless' is used to express 'except if (used to introduce the case in which a statement being made is not true or valid).' Both the sentences are in the similar context and therefore the statement thus formed is "**Unless England absorb the harsh lessons of their worst finish in 31 years, the chances of them prospering in Japan are on a par with Eddie Jones holidaying in Wales in the near future.**" All the other given alternatives are incorrect. Hence, **option (c)** is the most suitable answer choice.
126. (a); The idiom/phrase "**eager beaver**" means **a keen and enthusiastic person who works very hard**. Thus, among the four given statements, only the first sentence provides the exact meaning of the phrase and at the same time it can be replaced by the given phrase without altering the meaning of the sentence. Hence option (a) is the correct choice.
Apathetic means showing or feeling no interest, enthusiasm, or concern.
Mundane means lacking interest or excitement; dull.
Optimist means a person who tends to be hopeful and confident about the future or the success of something.
127. (c); The phrase "**Bolster up**" means **give support, reinforce, strengthen**. Thus, among the four given statements, only the third sentence provides the exact meaning of the phrase and the highlighted word can be replaced by the given phrase without altering the meaning of the sentence. Hence option (c) is the correct choice.
Conjecture means form an opinion or supposition about (something) on the basis of incomplete information.
Gather means come together; assemble or accumulate.
Compute means reckon or calculate (a figure or amount).
128. (b); The phrase "**embark on**" means to begin any course of action. Thus, among the four given statements, only the second sentence provides the exact meaning of the phrase and the highlighted word "**initiate**" can be replaced by the given phrase without altering the intended meaning of the sentence. Hence option (b) is the correct choice.
Confront means come face to face with (someone) with hostile or argumentative intent.
Yield means give way to arguments, demands, or pressure.

129. (a); The phrase “**fallout**” means **the adverse results of a situation or action**. Thus, among the four given statements, only the first sentence provides the exact meaning of the phrase and at the same time it can be replaced by the given phrase without altering the meaning of the sentence. Hence option (a) is the correct choice.
Repercussion means an unintended consequence of an event or action, especially an unwelcome one.
Bereave means be deprived of a close relation or friend through their death.
Meliorate means make (something bad or unsatisfactory) better.
130. (d); The phrase “**go over**” means **consider, examine, or check (something)**. Thus, among the four given statements, only the fourth sentence provides the exact meaning of the phrase and the highlighted word “**consider**” can be replaced by the given phrase without altering the intended meaning of the sentence. Hence option (d) is the correct choice.
Exude means (with reference to moisture or a smell) discharge or be discharged slowly and steadily.
Shed means accidentally allow (something) to fall off or spill.
Percolate means (of a liquid or gas) filter gradually through a porous surface or substance.
131. (a); Only the first part of the sentence or part (A) is grammatically correct and follows the structure in the context of the sentence. However, there are grammatical errors in both the parts (C) and (D). In part (C), there is an error of subject-verb agreement; the subject of the verb “**is**” i.e. “**factors**” should be replaced by its singular “**factor**”. In part (D), the preposition “**to**” is not required, it should be removed to make the sentence grammatically and contextually correct. Hence option (a) is the correct choice.
132. (d); There is an error in the part (A) of the sentence. The sentence misses the verb for the subject; thus, the subject “**The Slow Movement**” should be followed by the verb “**is**” to make the sentence grammatically correct and contextually meaningful. The highlighted parts of the sentence do not require any correction as they are grammatically correct. Hence option (d) is the correct choice.
133. (d); Only the part (E) of the highlighted parts is grammatically correct. There are grammatical errors in all the three parts (A), (B) and (D). In the part (A), the singular verb “**has**” should be replaced by its plural “**have**” as the subject is plural [**Many of us**]. In the part (B), the preposition “**with**” should be replaced by “**about**” to give the contextual meaning to the sentence. In the part (D), the expression “**every last scrap off it**” should be replaced by “**every last scrap of it**” to make the sentence grammatically correct. Hence option (d) is the correct choice.
134. (e); The given sentence is grammatically correct. All the highlighted parts along with the ones not highlighted are both grammatically correct and contextually meaningful. Hence option (e) is the correct choice.
135. (a); Only the part (B) of the highlighted parts is grammatically correct. There are grammatical errors in all three parts (C), (D) and (E). In the part (C), the verb “**followed**” should be replaced by “**follow**” as the sentence is in the Present tense. In the part (D), the noun “**authority**” should be replaced by the adjective “**authoritarian**” to give the contextual sense to the sentence. In the last part, the determiner “**its**” should be replaced by “**their**” as the noun it is referring is plural [**escapees**].
136. (b); Option (b) is the correct choice. ‘**Strive**’ means ‘make great efforts to achieve or obtain something’ which is similar in meaning to ‘**Covet**’. Egregious means outstandingly bad; shocking. Clandestine means kept secret or done secretly, especially because illicit. Salubrious means health-giving; healthy. Atypical means not representative of a type, group, or class.
137. (d); ‘**Bemused**’ means puzzled, confused, or bewildered. ‘**Engrossed**’ means absorb all the attention or interest of. Hence, option (d) is correct as they both are antonyms of each other. Meticulous means showing great attention to detail; very careful and precise. Surfeit means an excessive amount of something. Pervasive means (especially of an unwelcome influence or physical effect) spreading widely throughout an area or a group of people. Fuddled means confused or stupefied, especially as a result of drinking alcohol.
138. (e); **Begule** means charm or enchant (someone), often in a deceptive way. **Inveigle** means persuade (someone) to do something by means of deception or flattery. As they both have similar meanings, option (e) is the correct choice. Subversive means seeking or intended to subvert an established system or institution. Voracious means wanting or devouring great quantities of food. Vicious means deliberately cruel or violent. Phlegmatic means (of a person) having an unemotional and stolidly calm disposition.

139. (a); Option (a) is the correct choice. '**Embargo**' means an official ban on trade or other commercial activity with a particular country which has similar meaning to '**prohibition**'.
Philistine means a member of a non-Semitic people of ancient southern Palestine, who came into conflict with the Israelites during the 12th and 11th centuries BC.
Oasis means a fertile spot in a desert, where water is found.
Ostentatious means characterized by pretentious or showy display; designed to impress
Aberrant means departing from an accepted standard.

140. (b); Option (b) is the correct choice. '**Exculpate**' means show or declare that (someone) is not guilty of wrongdoing. '**Condemn**' means sentence (someone) to a particular punishment, especially death. Hence, they both have opposite meanings.
Ameliorate means make (something bad or unsatisfactory) better.
Coagulate means (of a fluid, especially blood) change to a solid or semi-solid state.
Torpor means a state of physical or mental inactivity; lethargy.
Sate means satisfied to the full; sated.



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Direction (1-4): Study the following information carefully to answer the given questions.

In a certain code language-

“work for earning money” is coded as “Go3 None5 Xor4 Farnin7”

“like six years passed” is coded as “Ti3 Qasse6 Zear5 Mik4”

“hence good amount received” is coded as “Seceive8 Ienc5 Hoo4 Bmoun6”

- What is the code for “last earning was money”?
 (a) Xa3 Mas4 Noney5 Farnin7
 (b) None5 Xa3 Mas4 Darnin7
 (c) None5 Mas4 Farnin7 Xa3
 (d) Mas4 Lone5 Farnin7 Xa3
 (e) None of these
- If “money makes man perfect” is coded as “Nake5 Qerfec7 Na3 None5”, then what is the code for “good people always perfect” ?
 (a) Qeople6 Hoo4 Blway6 Qerfec7
 (b) None of these
 (c) Hoo4 Qerfec7 Blway6 Qeopl6
 (e) Qeople6 Hoo4 Qerfec7 Blway6
 (e) Qerfec7 Blway6 Qeople5 Hoo5
- What is the code for “hence always wrong hance”?
 (a) Can't be determined
 (b) Blway6 Iance5 Xron5 Ienc5
 (c) Ianc5 Xron5 Blway5 Ienc5
 (d) Ianc5 Xron5 Ienc4 Blways6
 (e) Blway6 Ienc5 Ianc5 Xron5
- “Farming” is coded as?
 (a) None of these (b) Garmin7
 (c) Gramin8 (d) Garing8 (e) Earnin7

Direction (5-10): Read the given information carefully and answer the given questions.

There are five units i.e. 1, 2, 3, 4 and 5. Each unit has a different height. Also each unit contains books and boxes. unit2 is above unit1 and unit3 is above unit2 and so on. Every unit belongs to different country i.e. Beijing, Paris, London, Sydney and Zurich. The total height of all five units is equal to 252”ft.

***Total Height of Unit is equal to the total height of books plus total height of boxes in each unit.**

***Height of books is not equal to the height of boxes. Unless specified so.**

The unit belongs to London is an even unit. The total height of unit1 is 75” ft. Sydney does not belong to unit1. The total height of unit, which belongs to Sydney is 55”ft. There is only one unit between the units which belongs to London and Paris. The height of books and height of boxes in unit3 are equal. The height of books in unit2 is not less than 30”ft. The height of books in unit4 is 4”ft more than height of books which is in unit3. The total height of unit which belongs to London is not 37”ft. Unit which has 37”ft will not be immediate above to unit which has 20”ft more height than unit which belongs to Sydney . The height of boxes in unit2 is 23”ft. Unit belongs to Zurich does not equal height of books and boxes. The total height of unit2 is an odd number and more than 50”ft and less than 55”ft. Height of boxes in unit 1 is 23”ft more than unit4. Height of books in unit 5 is 7”ft less than the height of books of unit 1.

- What is the total height in unit3?
 (a) 37”ft (b) None of these (c) 32”ft
 (d) 53”ft (e) 75”ft
- Unit3 belongs to which country?
 (a) Paris (b) Zurich (c) Sydney
 (d) Beijing (e) London
- If ‘Sydney’ is related to 37”ft in the same way as ‘Beijing’ is related to 53”ft. Which of the following is ‘Paris’ related to, following the same pattern?
 (a) 53”ft (b) 37”ft
 (c) 75”ft (d) None of these
 (e) 32”ft
- Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
 (a) Sydney (b) 32”ft (c) 75”ft
 (d) Paris (e) Beijing
- What is the height of box in unit 4?
 (a) 23’ft (b) 17”ft (c) 27”ft
 (d) 40”ft (e) 20”ft
- Which unit contains 30”ft book?
 (a) None of these (b) Unit2
 (c) Unit3 (d) Unit1
 (e) Unit5

Direction (11-15): Read the given information carefully and answer the given questions.

There are eight persons A, B, C, D, E, F, G and F are sitting around a circular table. All of them are facing the center, but not necessarily in the same order.

B sits third to the left of H. There are only one person sits between H and H's husband. G is the husband of A. D sits immediate left of B. C sits third right of A, but C is not immediate neighbor of H's husband. There are three person's sits between A and her husband. C is the spouse of F. B's spouse does not sits immediate right of A's husband.

11. Who sits second right of F?
 (a) E (b) None of these (c) D
 (d) G's wife (e) B
12. How many person sits between E's wife and G's wife?
 (a) None (b) Two (c) One
 (d) Three (e) Five
13. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
 (a) G (b) H (c) B
 (d) E (e) A
14. Who sits immediate left of H's husband?
 (a) C's spouse (b) G
 (c) None of these (d) H (e) B's spouse
15. If C is related to B in the same way as E's wife is related to A's husband. Which of the following is 'G's wife' related to, following the same pattern?
 (a) G (b) F (c) D
 (d) H's husband (e) None of these

Directions (16-19): Each of the questions below consists of a question and three statements numbered I, II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

- (a) If statement II and III are sufficient to answer the question, but statement I alone is not sufficient to answer the question.
- (b) If all the statements I, II and III taken together are not sufficient to answer the questions.
- (c) If statements I and II is sufficient to answer the question, but statement III is not sufficient to answer the question.
- (d) If all the statements I, II and III taken together are sufficient to answer the questions.
- (e) If statement I and III are sufficient to answer the question, but statement II alone is not sufficient to answer the question.
16. Who among A, B, C, D, E and F is the tallest?
 (I) Only two of them are taller than C.
 (II) D is shorter than F.
 (III) C is taller than A, but shorter than F and B.

17. How is M related to O?
 (I) J is the sister of K, who is the son of M. L is the brother of M and R is brother of O.
 (II) L is the brother of M. M is the son of Q.
 (III) M is the son of R, who is the husband of Q.
18. Who amongst S, T, U, V, W and X is the tallest person?
 (I) X is taller than W but smaller than U. U is smaller than T.
 (II) U is taller than S and W but smaller than T. T is not the tallest person
 (III) V is taller than T and U. W is not the smallest person.
19. In which direction point D with respect to point M?
 (I) Point M is towards west of point E, who is the north-west of point P.
 (II) Point P is to the east of point S. Point M is the north of point S.
 (III) Point C is the west of point D. Point D is the west of point S.
20. "We have formulated a 10-point programme to curb molestation cases against woman and we are confident of restricting the eve-teasing cases with the help of our sincere cops"- Director General of Police of city 'X'. Which of the following, if true, would weaken the statement?
 (a) City 'X' is known among those cities where they are least crime records.
 (b) City 'X' is the most populated city in the world.
 (c) On several occasions women have complained against police cops and have charged them of indulging in eve-teasing.
 (d) Literacy rate of city 'X' is the highest amongst all cities.
 (e) Many NGOs are cooperating with the police forces in ensuring a peaceful life in city 'X'.

Direction (21-25): Read the given information carefully and answer the given questions.

Two buses A and B starts their journey from same depot but not necessary in the same order. Bus A starts moving in north direction and covers a distance of 6 km to reach point P then take a right turn and move 18km to reach point R, then it takes a left turn and move 12km to reach point S. Point P, Q and R lies in a same line. Distance between P and Q is half of the distance between point Q and R. Bus B starts moving in west direction and move by 2km more than the distance between point Q and R from depot and reach point W, than from point w it takes a right turn and walk 18km to reach point U. U, V and W lies in the same line as distance between point V and W is double of the distance between point U and V. From point U, bus B take a right turn and reach point S. Point T lies between U and S in exact midway.

21. What is the total distance between U and S?
 (a) 29km (b) 32km (c) 36km
 (d) 30km (e) 28km
22. In which direction is point T with respect to point W?
 (a) North (b) South
 (c) North West (d) North East
 (e) South West.
23. A boy want to go to the bus depot so he starts walking toward north from Point W after reaching point V he suddenly realize that he is going in the wrong direction. So, what is the shortest route from point V to the bus Depot?
 (a) Back to point W then go to depot from there.
 (b) From point V he should go in the east direction 20km than move toward south to reach point Q and then reach P and then to the depot.
 (c) From point V he should go towards north to reach point U from there, he should reach point S than point R than P than depot.
 (d) Both (a) and (b)
 (e) Can't determine.
24. What is the distance between T and S?
 (a) 14km (b) 12km (c) 16km
 (d) 18km (e) 6km
25. Bus A is moving in which direction currently?
 (a) West (b) North-east (c) South
 (d) North (e) East
26. A government survey released today shows that 80% of the people who fly are satisfied with the service they receive from the airlines in this country. Three interviewers stood outside a major airport and asked people leaving the terminal, "Do you have any complaints about the flight you just got off?" Only 20 percent responded "yes!"
 Which of the following, if true, would most **undermine** the conclusion of the argument above?
 (a) Sixty percent of the people coming out of the airline terminal were not people who had just gotten off a flight.
 (b) One percent of the people approached by the interviewers refused to respond to their inquiries.
 (c) The interviewers began their inquiry just after passengers were discharged from a flight that was 40 minutes late.
 (d) The interviewers were able to speak to only 70 percent of the people leaving the terminal, but those people were selected at random.
 (e) For six months following the day of the interviews, no official complaints were filled by any passenger with the Federal agency that regulated the airlines.

Direction (27-32): Read the given information carefully and answer the given questions.

There are seven persons in a family namely A, B, C, D, E, F and G. All of them related with each other in a order. Also, each person has a different age. The information is given as-

A is older than B but younger than E. The third oldest person in the family is 38 years old. B is the sister of A. C is the father of A. The third youngest person of the family is 35 years old. G is the oldest person of the family. B is the niece of F. E is older than B. F is the husband of E. G and D are married couple. C's mother is 69-year-old. C is younger than F. Oldest person of the family is male member. C is not 35 years old.

27. If total age of D and B is 75 years, then what is the age of B?
 (a) 40 years (b) 37 years
 (c) 6 years (d) None of these
 (e) 10 years
28. How is D related to A?
 (a) Grandfather (b) Mother
 (c) Can't be determined (d) Grandmother
 (e) Father
29. Who among the following person is 35 years old?
 (a) A (b) E (c) F
 (d) C (e) D
30. How many person/s are older than A?
 (a) Six (b) Four
 (c) None of these (d) Three
 (e) Five
31. What is the possible age of C?
 (a) 52 years (b) 39 years (c) 37 years
 (d) 29 years (e) None of these
32. What is the possible age of oldest person of the family?
 (a) 74 year (b) 68 year (c) 62 year
 (d) 80 year (e) Both (a) and (d)
33. **Statement** The annual requirement of blood in our country is 6 million units whereas the generation is only 3.5 million units per annum at present.
Courses of action
 I. Blood donors should be attracted by telling them how the act of donating blood would improve their health.
 II. Blood donors should be attracted by providing them monetary incentives.
 III. More and more private blood banks should be encouraged.
 (a) Either I or II follows (b) I and II follow
 (c) II and III follow (d) All follow
 (e) Only I follow

Directions (34-35): Given below are pairs of events 'A' and 'B'. You have to read both the events 'A' and 'B' and decide their nature of relationship. You have to assume that the information given in 'A' and 'B' is true and you will not assume anything beyond the given information in deciding the answer. Mark answer

- (a) If 'A' is the effect and 'B' is its immediate and principal cause.
 (b) If 'A' is the immediate and principal cause and 'B' is its effect.
 (c) If 'A' is an effect but 'B' is not its immediate and principal cause.
 (d) If 'B' is an effect but 'A' is not its immediate and principal cause.
 (e) None of these

34. Statement (A): The government has decided to roll back the hike in the prices of cooking gas and kerosene. Statement (B): Some ministers had resigned in protest against the hike in prices of cooking gas and other petroleum products.

35. Statement (A): A traveler found cockroaches in the crevices of his seat and also in the toilets of India's most prestigious train, the Rajdhani Express. Statement (B): He drew the attention of catering manager, Western Railway, to the insects.

Direction (36-40): Read the given information carefully and answer the given questions.

There are eight persons namely A, B, C, D, E, F, G and H has born in the same month of different year i.e. 1969, 1972, 1978, 1981, 1989, 1997, 2000 and 2005. Their age are

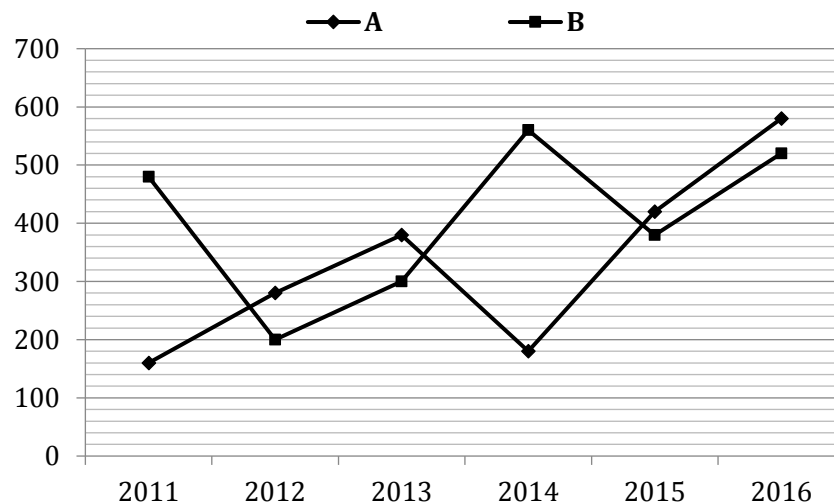
considered as on the same month of 2016. G is born in even number year, but not born in the year, which does not divisible by 4. A is 35 years old now. B is 17 years older than F, who is 8 years younger than A. There are eight years gap between age of E and age of D. H is nine years younger than C, but not born in 2005. E, was born earlier than G.

- 36.** In which year does F born?
 (a) 1969 (b) 1989 (c) 2005
 (d) 1981 (e) 1978
- 37.** What is the age of G in 2016?
 (a) 11 years (b) 18 years (c) 26 years
 (d) 16 years (e) 35 years
- 38.** Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
 (a) 1969 (b) 1978 (c) 2005
 (d) 1981 (e) 1997
- 39.** By how many years B was born before E?
 (a) 24 years (b) None of these
 (c) 30 years (d) 19 years (e) 25 years
- 40.** How many years gap between C and D?
 (a) 33 years (b) 16 years (c) 36 years
 (d) None of these (e) 27 years

QUANTITATIVE APTITUDE

Directions (41-45):- Refer the graph and answer the given questions.

The following line graph shows the number of products sold by company A and B during six years.



- 41.** What is the ratio of the total number of products sold by A and B together in 2012 to the total number of products sold in these two companies together in 2015?
 (a) 12 : 25 (b) 3 : 5 (c) 4 : 3
 (d) 5 : 3 (e) None of these

- 42.** Out of the total number of products sold by A and B together in 2011, only 20% are defected. What is the total number of defected products sold by A and B together in 2011?
 (a) 228 (b) 128 (c) 160
 (d) 148 (e) 138

43. The number of products sold by A in 2014 is what per cent of the number of products sold by B in 2013?
 (a) 60% (b) 50% (c) 48%
 (d) 56% (e) None of these
44. The number of products sold by B increased by what percent from 2011 to 2014?
 (a) $14\frac{2}{3}\%$ (b) $16\frac{2}{3}\%$ (c) $24\frac{2}{3}\%$
 (d) $18\frac{2}{3}\%$ (e) $25\frac{1}{3}\%$
45. What is the difference between the total number of products sold by B in 2011, 2012 and 2016 together and the total number of products sold by A in 2011, 2012 and 2013 together?
 (a) 480 (b) 360 (c) 580
 (d) 380 (e) 280

Directions (46-50): Study the table carefully and answer the following questions.

Village	% of people having Bank account out of total population in the village	Out of people having Bank Account	
		% male among the total people having Bank Account	% of Inoperative Bank Account
A	45%	60%	40%
B	60%	30%	10%
C	60%	70%	30%
D	55%	50%	20%
E	35%	40%	60%

46. If the population in village A and C are in ratio of 2:1 then, what is the ratio of inoperative Bank Account in Bank A and C?
 (a) 1 : 3 (b) 3 : 2 (c) 1 : 2
 (d) 4 : 5 (e) None of these
47. If out of the total inoperative Bank account in village B half account holder is female which is equal to 300, then find the total population of village B?
 (a) 10000 (b) 12000 (c) 14000
 (d) 8000 (e) 9000
48. If the population of village C and D are in ratio of 1 : 2, then number of people in village C having Bank account is approximately what percent less or more than that of village D?
 (a) 49.45% (b) 42.45% (c) 47.45%
 (d) 43.45% (e) 45.45%
49. If the ratio of population in village A, B and C are in 1 : 2 : 3 then what percent of people in village A, B and C together have a bank account.
 (a) 51.5% (b) 52.5% (c) 59.5%
 (d) 57.5% (e) 55.5%
50. Percentage of inoperative Bank account in Village E is by what percent more than the percentage of operative Bank accounts in the same village:
 (a) 45% (b) 50% (c) 60%
 (d) 55% (e) 75%

Directions (51-55): The following questions are accompanied by three statements (A), (B), and (C). Determine which statement(s) is/are sufficient/necessary to answer the questions.

51. What is the price of a chair?
 A. The price of three tables is equal to the price of seven chairs.
 B. The difference between the price of a table and that of a chair is Rs 900.
 C. The price of one table is $133\frac{1}{3}\%$ more than the price of one chair.
 (a) Only A and B together are sufficient
 (b) Only A and C together are sufficient
 (c) All together are necessary
 (d) B and either A or C together are sufficient
 (e) Even all A, B and C together are not sufficient
52. What is rate of interest per annum?
 A. The amount becomes Rs 9331.20 in 2 years at compound interest.
 B. The difference between CI and SI at the same rate of interest in 2 yrs is Rs 51.20.
 C. The amount invested in Rs 8000.
 (a) Only A and B together
 (b) Only B and C together
 (c) B and either A or C only
 (d) C and either A or B only
 (e) Any two of them
53. Find the number of days in which Q can do a job if P can do the same job in 8 days.
 A. Q is 60% more efficient than P.
 B. P and Q together can do the job in $3\frac{1}{13}$ days.
 C. P is $37\frac{1}{2}\%$ less efficient than Q.
 (a) Only A is sufficient
 (b) Only B is sufficient
 (c) Either A or B is sufficient
 (d) Any of them
 (e) A and C together are sufficient
54. What is the non-voting population of a certain country?
 A. Only males above 21 years of age can vote while no female can vote.
 B. Males above 21 years form 30% of the total population.
 C. The total population of the country is 30 million.
 (a) A only (b) B only (c) C only
 (d) A and C only (e) None of the above
55. A shopkeeper sold an article and got Rs 300 as profit. Find the profit percentage?
 A. Selling price of the article is Rs 1200.
 B. He gave 25% discount, which is Rs 400, on the labelled price
 C. Cost price of the article is Rs 900.
 (a) Any two of them (b) Any of them
 (c) B and either A or C (d) Either A or C only
 (e) A and C together

Directions (56-60): Equation number I and II are given. You have to solve both the questions and answer.

56. I. $x^2 = 144$ II. $y^2 - 24y + 144 = 0$
 (a) $x \leq y$
 (b) $x \geq y$
 (c) Relationship between x and y cannot be determined
 (d) $x < y$ (e) $x > y$
57. I. $2x^2 - 9x + 10 = 0$
 II. $2y^2 - 13y + 20 = 0$
 (a) $x \leq y$
 (b) $x \geq y$
 (c) Relationship between x and y cannot be determined
 (d) $x < y$ (e) $x > y$
58. I. $x^2 - 15x + 56 = 0$
 II. $3y^2 - 18y + 15 = 0$
 (a) $x > y$
 (b) $x \geq y$
 (c) $x < y$
 (d) $x \leq y$
 (e) $x = y$ or the relationship cannot be established
59. I. $\sqrt{200x} + \sqrt{102} = 0$ II. $\sqrt{160y} + \sqrt{200} = 0$
 (a) $x > y$ (b) $x \geq y$
 (c) $x < y$ (d) $x \leq y$
 (e) $x = y$ or the relationship cannot be established
60. I. $(13)^2 - 14 + 28 = x$ II. $(16)^2 - 8 \times 7 = y$
 (a) $x > y$
 (b) $x \geq y$
 (c) $x < y$
 (d) $x \leq y$
 (e) $x = y$ or the relationship cannot be established
61. One fill pipe A takes 3 minutes more to fill the cistern than two fill pipes A and B opened together to fill it. Second fill pipe B takes $21\frac{1}{3}$ minutes more to fill cistern than two fill pipes A and B opened together to fill it. When will the cistern be full if both pipes are opened simultaneously?
 (a) 7 minutes (b) 16 minutes
 (c) 8 minutes (d) 10 minutes
 (e) 12 minutes
62. In an examination P scored 25 marks less than Q. Q scored 45 more marks than R. T scored 75 marks which is 10 more than R. U's score is 80 less than maximum marks of the test. What approximate percentage of marks did U score in the examination if he gets 10 marks more than R?
 (a) 90% (b) 70% (c) 80%
 (d) 60% (e) 85%
63. The largest and the smallest angles of a triangle are in the ratio of 3:1 respectively. The second largest angle of the triangle is equal to 56° . What is the value of largest angle of the triangle?

- (a) 49° (b) 129° (c) 123°
 (d) 93° (e) None of these

64. The difference between the sum of four consecutive odd numbers and three consecutive even numbers together is 20. Also, the largest even number is 5 more than the largest odd number. What is the sum of the smallest odd number and the smallest even number?
 (a) 77 (b) 71 (c) 879
 (d) 83 (e) Cannot be determined
65. Anoop sells a book to Mayank at a profit of 20% and Mayank sells this book to Siddharth at a profit of 25%. Now Siddharth sells this book at a loss of 10% to Shishir. At what percentage loss should Shishir sell this book now so that his SP becomes equal to Anoop's CP?
 (a) 36.68% (b) 25.92% (c) 48.66%
 (d) 16.46% (e) Cannot be determined
66. A shopkeeper marks up the price of his product by 40%. If he increases the discount from 5% to 10%, the profit would decrease by Rs 14. How much profit would he earn if he gives a discount of 20% on the marked price?
 (a) Rs. 56 (b) Rs. 28 (c) Rs. 32
 (d) Rs. 24 (e) Rs. 38
67. Monica deposited a total of Rs. 10500 with a bank in two different deposit schemes at 10% p.a., interest being compounded annually. As per the schemes, she gets the same amount after 2 years on the first deposit as she gets after 3 years on the second deposit. How much money did she deposit for 3 years?
 (a) Rs. 4500 (b) Rs. 5000 (c) Rs. 6500
 (d) Rs. 7200 (e) None of these
68. Sapna borrowed a certain sum of money from Kavita under the following repayment scheme based on simple interest. 8% p.a. for the initial 2 years, 9.5% p.a. for the next 4 years, 11% p.a. for the next 2 years, 12% p.a. after the first 8 years. Find the amount which a sum of Rs. 9000 taken for 12 years becomes at the end of 12 years?
 (a) Rs. 20160 (b) Rs. 22350
 (c) Rs. 23470 (d) Rs. 24567
 (e) None of these
69. A, B and C enter into a partnership. A invests Rs. 8000 for the whole year, B puts in Rs. 12000 at the first and increasing to Rs. 16000 at the end of 4 months, whilst C puts in at first Rs. 16000 but withdraw Rs. 4000 at the end of 9 months. Find the profit of A at the end of year, if the total profit is Rs. 22600?
 (a) Rs. 4800 (b) Rs. 4600 (c) Rs. 4750
 (d) Rs. 4300 (e) None of these

70. Two places P and Q are 92 km apart. A train leaves P for Q and at the same time another train leaves Q for P. Both the trains meet 4 hrs after they start moving. If the train travelling from P to Q travels 7 km/hr faster than the other train, find the speed of the two trains?
 (a) 15 km/hr, 8 km/hr (b) 12 km/hr, 8 km/hr
 (c) 12 km/hr, 9 km/hr (d) 15 km/hr, 9 km/hr
 (e) None of these
71. A and B working together, can do a piece of work in $4\frac{1}{2}$ hours. B and C working together can do it in 3 hours. C and A working together can do it in $2\frac{1}{4}$ hours. All of them begin the work at the same time. Find how much time they will take to finish the piece of work?
 (a) 3 hours (b) 2 hours (c) 2.5 hours
 (d) 1 hour (e) None of these
72. Raman took a loan of Rs. 15000 from Laxman. He agreed that for the first three years rate of interest charged would be at 8% Simple Interest per annum and at 10% Compound Interest (compounded, annually) from the fourth year onwards. Ram did not pay anything until the end of the fifth year. How much would he repay if he clears the entire amount, only at the end of fifth year (inRs.) ?
 (a) Rs. 22506 (b) Rs. 22105
 (c) Rs. 22900 (d) Rs. 22500
 (e) Rs. 22450
73. Ram and Shyam are travelling from point A to B, which are 60 km apart. Travelling at a certain speed ram takes one hour more than Shyam to reach point B. If Ram doubles his speed he will take 30 minutes less than Shyam to reach point B. At what speed was Ram driving from point A to B ?
 (a) 15 kmph (b) 35 kmph (c) 30 kmph
 (d) 25 kmph (e) 20 kmph
74. 6 litres are drawn from a cask full of wine and it is then filled with water. 6 litres of the mixture are drawn and the cask is again filled with water. The quantity of wine now left in the cask is to that of the water in it as 121 : 23. How much does the cask hold?
 (a) 54 litres (b) 62 litres (c) 70 litres
 (d) 72 litres (e) None of these
75. A passenger train leaves Calcutta at 4 PM and travels at the rate of 30 kilometres an hour. The mail train leaves Calcutta at 9 PM and travels, on a parallel line of rails, at the rate of 45 km an hour, when will the second train overtake the first?
 (a) 10 hrs after the first train start
 (b) 12 hrs after the second train starts
 (c) 10 hrs after the second train starts
 (d) 12 hrs after the first train starts
 (e) None of these
- Directions (76-80):** What will be come in place of question mark (?) in the following number series ?
76. 14 8 7 11.5 22 ?
 (a) 54 (b) 64 (c) 62
 (d) 58 (e) 56
77. 8 14 25 46 82 ?
 (a) 132 (b) 130 (c) 138
 (d) 168 (e) 148
78. 13 14 30 93 ? 1885
 (a) 358 (b) 336 (c) 364
 (d) 376 (e) 356
79. 17, 52, 158, 477, ?, 4310
 (a) 1433 (b) 1432 (c) 1435
 (d) 1434 (e) None of these
80. 3, 22, ?, 673, 2696, 8093
 (a) 133 (b) 155 (c) 156
 (d) 134 (e) None of these

ENGLISH LANGUAGE

Directions (81-88): Read the following passage carefully and certain words in the passage are printed in bold letters to help you locate them easily while answering some of these questions.

The Indian economy is currently passing through a phase of relatively slow growth. However, this should not cloud the fact that over the nine-year period beginning 2005-06, the average annual growth rate was 7.7 per cent. Against this background, the relevant question is whether India has the capability to grow at 8-9 per cent in a sustained way. In short, what is the potential rate of growth of India? Normally, potential growth is measured using trends with some filters. In one sense, these are backward-looking

measures, since they depend on historically observed data. In the case of measuring capacity utilisation in manufacturing, the maximum capacity is very often taken as the maximum output achieved in the recent period. Perhaps, in the case of determining the potential rate of growth of the economy also, one can take the maximum growth rate achieved in the recent past as the lowest estimate of the potential. However, this assumption will be valid only if there is reason to believe that the maximum growth rate achieved in the recent past was not a one-off event and that the growth rate achieved was robust and replicable.

India achieved a growth rate of 9.5 per cent in 2005-06, followed by 9.6 per cent and 9.3 per cent in the subsequent two years. After declining a bit in the wake of international financial crisis, the growth rate went back to 8.9 per cent in 2010-11. In many ways the growth rate achieved in the high phase period of 2005-06 to 2007-08 was robust. The domestic savings rate during this period averaged 34.9 per cent of GDP. Similarly, the gross capital formation rate averaged 36.2 per cent. The current account deficit (CAD) remained low with an average of 1.2 per cent of GDP. Agricultural growth during this period averaged 5 per cent, and the annual manufacturing growth rate was 11 per cent. The capital flows were large but as the CAD remained low, the **accretion** to reserves amounted to \$144 billion. Inflation during the period averaged 5.2 per cent. The combined fiscal deficit of the Centre and States was 5.2 per cent of GDP, well below the stipulated 6 per cent. Thus on many dimensions the growth rate was robust. Unlike in the 1980s when the pick-up in growth was accompanied by deterioration in fiscal deficit and current account, the sharp increase in growth between 2005-06 and 2007-08 happened with the stability parameters at desired levels. Also, a booming external environment provided good support.

To assess whether the high growth phase can be replicated, we need to understand the factors that led to the slowdown since 2011-12. Complicating the analysis of this period is the revision of national income numbers with a new base. The two sets of numbers present a somewhat differing picture. According to the earlier series, the growth rate of the Indian economy fell below 5 per cent in 2012-13 and 2013-14. But the new series shows a decline below 5 per cent only in 2012-13. For 2013-14, the new series records a growth rate of 6.6 per cent, as against 4.7 per cent according to the earlier estimate. For 2014-15 and 2015-16, there is only one set of numbers, that is, according to the new series. For both the years the growth rate is above 7 per cent. These are good growth rates under any circumstance, let alone the current global situation. Anyway, we have come down from the growth rate of 9-plus per cent which we had seen earlier.

Three sets of reasons are attributed for the slowdown. First, the external environment had deteriorated sharply. The recovery from the crisis of 2008 was **tepid**. One country after another in the developed world came under pressure. Strangely, however, international commodity prices including crude oil prices remained high until a couple of years ago. All this had an adverse impact on developing countries, including India. However, it would be wrong to attribute the slowdown in India primarily to external factors. The domestic factors are the key. Second, there were severe supply bottlenecks. Agricultural production fell sharply in 2009-10 because of a severe drought. This triggered an inflation which lasted for several years thereafter. Coal output fell. Iron ore output fell, partly because of court decisions. The third set of reasons is basically non-economic which led collectively to

a weakening of investment. A multitude of issues relating to scams and perceived delays in decision-making created an element of uncertainty in the minds of investors. New investments began to fall.

The rise in investment rate must be supported by a rise in the domestic saving rate. An increase in investment rate supported by a widening current account deficit is not sustainable and is fraught with serious consequences. Only a current account deficit in the region of 1 to 1.5 per cent is sustainable. Incremental capital output ratio is a catch-all variable which is influenced by a host of factors. Obviously, it depends on technology. It also depends upon the skill of the labour force which in turn depends on the quality of the education system. Another catch-all expression "ease of doing business" is also relevant (i.e.) bureaucratic hurdles which **impede** speedy execution of projects need to be removed. Thus improving the productivity of capital needs action on several fronts.

Making a prediction about the future is always hazardous. Many things can go wrong. The Indian economy in the recent past has shown that it has the **resilience** to grow at 8 to 9 per cent. Therefore achieving the required investment rate to support such a high growth is very much in the realm of possibility. However, we need to overcome the current phase of declining investment rate. Investment sentiment is influenced by non-economic factors as well. An environment of political and social **cohesion** is imperative. Equally, we can get the incremental capital-output ratio (ICOR) to a lower level. Raising the productivity of capital will require policy reforms including administrative reforms as well as firm-level improvements. The "potential" to grow at 8 to 9 per cent at least for a decade exists. We have to make it happen.

(The topic of the Passage asked in the exam was based on the economic changes in the last 50 years)

81. In context of the given passage, which of the following is/are the reason for economic slowdown of India?
- Jaunty recovery from the crisis of 2008
 - Court's verdict to stop production of coal.
 - domestic barriers like draught, inflation etc.
 - Various barriers introduced by the government.
 - All of these
82. According to the given passage, what does 'ease of doing business' imply?
- End of bureaucracy
 - Eliminating nepotism
 - Availability of funds
 - Eliminating Red tapism
 - Not clear from the passage
83. On what factor(s) do(es) incremental capital output ratio NOT depend?
- Technology
 - Skilled labour
 - Better education system
 - Low fiscal deficit
 - It depends on all the given options

84. On the basis of the given passage, which of the following options cannot be inferred?
- Corruption is one of the reasons for the economic slowdown of India
 - There is a dissimilitude between the calculations based on new base and the previous one.
 - The Indian economy experienced a great robust throughout the previous decade.
 - Fiscal deficit below six percent is proviso.
 - Nature also played an important role in slowing down Indian economy.
85. According to the given passage, which of the following option is the best reason which supports the author's conclusion that 'high growth is very much in the realm of possibility'?
- Flourishing service, agricultural and manufacturing sectors of India.
 - Policy reforms introduced by the current government.
 - Increasing growth rate and investment rate
 - India's potential to grow at a high rate
 - None of these
86. On the basis of your reading, choose an appropriate title for the passage.
- The Indian economy: The phase of sluggish growth.
 - India's potential.
 - India's promising past results.
 - Can India grow fast: An introspection
 - Ease of doing business

Directions (87-88): Choose the word/group of words which is **MOST SIMILAR** in meaning to the word/group of words printed in bold as used in the passage.

87. ACCRETION

- Adherence
- Accumulation
- Approval
- Devaluation
- Upsurge

88. IMPEDE

- Delay
- Violate
- defer
- taint
- Diagnose

Directions (89-95): Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you to locate them while answering some of the questions.

Brexit has **evoked** a **spate** of comments. These comments fall into broadly two categories. The first set of comments focusses on the short-term and medium-term impact of Brexit on the U.K., Europe and the rest of the world including India. The second goes into the reasons behind this decision of the British. Globalisation has been interpreted in many ways. In broad terms, globalisation denotes the free movement of goods, services, capital, funds, ideas, technology and people across countries. Many

people think globalisation is a recent phenomenon. This is not true. This has been going on for centuries. What has made it unique in recent times is the speed of the movement. Great Britain and many other countries in Europe have reached the present level of economic development only because of this free movement. In both demographic and geographic terms, Britain is a small country. It is not the size of the domestic market that determined its growth. London could not have emerged as the financial centre of the world but for the free flow of capital.

The **gamut** of financial services offered by London is geared to meet world demand and not that of Britain alone. Even after the exit from the EU, Britain cannot remain as an isolated island. It has to be part of an international trade regime which allows for free trade. What then could have motivated a little more than 50 per cent of the population to come out of the EU? It has something to do with the nature of the relationship within the EU. The EU has evolved over the last seven decades. From a loose arrangement, it has become a tight bureaucratic organisation with its jurisdiction extending to multifarious activities. When the euro was created as a common currency, Britain opted out of it. The European Central Bank sets a common monetary policy stance for all member countries. This itself has been a source of irritation to many member countries. This came out prominently at the time of the Greek crisis. With the loss of one instrument of control — namely, the exchange rate variation — the entire burden of adjustment had to be through employment and output changes. As one commentator put it, the EU has moved up its aspiration from the idea of 'common' market to 'single' market. It is this transition which half of Britain has resented. The complex set of regulations **emanating** from Brussels has made at least a section of the British people feel that they have lost 'independence'. Some of the elite of Britain who voted to 'leave' feel this way. They think that control has moved to unelected bureaucrats in Brussels. What has induced the 'non-elite' to vote for Brexit was the EU's migration policy. The free movement of people has been the last straw that broke the camel's back. The low-paid jobs in the U.K. have been taken over by migrants predominantly from Eastern Europe. In an economy which has been growing slowly (even though the U.K. is a better performer than other European countries in recent years), this has come as a shock. The spirit of 'nationalism' still runs high. The poor in Britain feel that they have been cheated by the migrants. Absorbing migrants is not new for Britain. The Asian and African migrants constitute a significant proportion of the population. All this happened when the economy was strong and growing. But this is not the situation now, and the **resentment** is in one sense natural. However, looked at globally, the poor in the countries from which people migrate have benefited. The

British have also gained to the extent that the free movement of people has enabled highly skilled professionals to find positions all over Europe. The 'leave' vote thus was motivated by two considerations: one, the degree of integration that the EU was trying to impose, and two, the migration policy which allowed a free movement of people across countries. Globalisation is not really the devil. If the EU arrangement had been restricted only to free movement of goods, services, capital and funds, it could not have led to any deep resentment. It is the attempt at greater economic integration that has been interpreted as a loss of sovereignty and resented. Globalisation, with its emphasis on efficiency (since goods and services will get produced at the least cost centres), can lead to greater inequality theoretically.

Within a country also, the more efficient including professionals gain disproportionately. This situation gets worse if economies are growing slowly. The U.S. has always prided itself on saying that the system they have is 'people's capitalism'. Inequalities do not matter much when economies are growing strongly and when new entrants to the labour force find employment easily. Countervailing measures are needed to take care of the adverse impact of globalisation. For this reason, we cannot throw the baby out with the bathwater. The developed countries face a serious dilemma. They have reached a stage in their development when further growth will be slow. This will have implications for absorbing the labour that gets added to the market. Complicating the situation is technological development which is increasingly labour-saving. New technologies have a twofold impact. First, they reduce the demand for labour in general. Second, in particular they make unskilled and semi-skilled work redundant. They demand new skills for which retraining may be needed. Distribution of income has thus become an issue which needs to be dealt with directly. Brexit is not a blow against globalisation per se. Labour does not stand in the same category as capital, even though both are factors of production. Migration hurts when the economy is at a low ebb. Britain, along with other developed countries, faces a basic problem of coping with a growth potential which is far lower than the growth rate they had seen before 2008.

89. To what aspect this article is devoted by the author?

- Impact of Brexit on U.K and Europe.
- Impact of globalization.
- Motivation behind the vote against greater economic integration.
- The implications of Brexit on the migration in Britain.
- Countervailing measures that are needed to take care of the adverse impact of globalisation.

90. What has been the reason for the infuriation of the member countries of European Union?

- Technological development which is increasingly labour-saving.
- The increase in the EU's propensity towards single market.
- Britain's refusal to accept euro as its currency even after common monetary policy stance for all the members.
- The migration policy which allowed a free movement of people across countries.
- The increase of inequality in economically strong countries which has generated a new nationalism.

91. Which of the following is one of the reasons for major section of British people to vote against European Union?

- Low wages due to the abundance of labour force migrating from Asian countries to the Britain.
- Slow economic growth and incompetence of the new technologies because of which they are becoming more financially weak.
- The jurisdiction enjoyed by the unelected officials in Brussels.
- The spirit of nationalism among the some sections of British people.
- Discrimination of Britain by other member countries because of both demography and geography.

92. Which of the following statement is false regarding the impact of globalization?

- Globalization that stresses on productivity leads to inequality.
 - Globalization has been attributed as the primary reason for the loss of supremacy in British people by the author.
 - Globalization is a major factor which helped London in becoming a financial center of the World.
- Only (ii).
 - Both (ii) and (iii).
 - Only (iii).
 - Both (i) and (ii).
 - All of these.

93. What is the peril of migration?

- Complications in the technological development.
- Increase in the inequality in the economies growing at a faster rate like Britain.
- Redundant semi-skilled and skilled work in general.
- Disbursement of salary is becoming a major issue because of increased number of labour.
- None of these.

Directions (94-95): Choose the word/group of words which is **MOST SIMILAR** in meaning to the word/ group of words printed in bold as used in the passage.

94. **EVOKED**

- Aplomb
- Subdue
- Extinguish
- Elicit
- Obsolete

95. SPATE

- (a) Meristematic (b) Deluge (c) Paradox
(d) Sparse (e) Paucity

(The topic of the Passage asked in the exam was based on the effect of BREXIT in Italian context)

Directions (96-100): In each of the following sentence there are three blank spaces. Below each sentence there are five options and each option consists of three words which can be filled up in the blanks in the sentence to make the sentence grammatically correct.

96. Indian Cricket has seen many _____ captains. But Dhoni was certainly a/an _____ one in many ways. As skipper, he mainly focused on cultivating team spirit and creating _____ for young players.
(a) exceptional, diminutive, chances.
(b) sturdy, serendipitous, chances
(c) stout, robust, opportunity
(d) Stalwart, extraordinary, opportunities.
(e) common, exceptional, prospects.
97. Pakistani's Defense Minister Khwaja Muhammad Asif, for all practical purposes, recently _____ Israel with a _____ nuclear attack, in response to a fake news report that the Israelis had said they would use nuclear _____ against Pakistan if it sent ground troops to Syria.
(a) threatened, retaliatory, weapons
(b) Jeopardized, reciprocating, armor
(c) admonished, riposte, weapon
(d) rebuked, counter, armament
(e) rebuffed, retorted, weapons
98. The line seems to be a direct _____ to the establishment of a caliphate. But those who know the context of Faiz the poet, the man and his work correctly interpret it as a communist vision of life, with the _____ of the _____ prevailing.
(a) commendation, democracy, precariat
(b) invocation, dictatorship, proletariat
(c) intercession, autonomy, rabble
(d) citation, anarchism, bourgeoisie
(e) intervention, despot, common people
99. News and social media companies have a moral _____ to ensure that they do not, directly or otherwise, deliberately _____ the facts to their audiences and pass them off for news. If it is a post-truth world we _____, this becomes especially important.
(a) obligation, distort, desire
(b) commitment, tarnish, denounce
(c) responsibility, misrepresent, inhabit
(d) purport, besmirch, stigmatize
(e) implication, enhance, reside

100. Activists in the country have long protested its _____ society that essentially _____ women from travelling, marrying or attending college without permission from a male relative, who is called their _____.
(a) benevolent, forbid, steward
(b) Pre-Adamite, prevent, custodian
(c) pre-eminent, restrict, protector
(d) venerable, condemns, manacle.
(e) patriarchal, prohibits, guardian.
101. Five statements are given below, labelled a, b, c, d and e. Among these, four statements are in logical order and form a coherent paragraph. From the given options, choose the option that does not fit into the theme of the paragraph.
(a) This can be seen in the growing importance cities are receiving in the distinct "worlds" of government, business, think tanks, academia and civil society.
(b) After years of ambivalence, urbanization is increasingly being embraced, or at least acknowledged, in India.
(c) Each of these "worlds" is populated by experts in specific "fields" within the urban realm such as planning, environment, transport, housing, finance and health.
(d) sustainability is at the core of the "New Urban Agenda". A substantial portion is dedicated to various "transformative commitments for sustainable urban development"
(e) The multiple "fields" within these parallel "worlds" typically operate as silos and do not interact with the other "fields" and "worlds".
102. Five statements are given below, labelled a, b, c, d and e. Among these, four statements are in logical order and form a coherent paragraph. From the given options, choose the option that does not fit into the theme of the paragraph.
(a) It is often said that the urgent and the immediate are not the same as important.
(b) Therefore, one should not be surprised that the Indian corporate sector has kept its calls for lower interest rates and a competitive exchange rate on an auto-replay mode.
(c) Indeed, they are in conflict with one another.
(d) All the urgent and the immediate commentary on the decision by the newly constituted monetary policy committee (MPC) of the Reserve Bank of India (RBI) has already come out.
(e) RBI has released the minutes of the MPC meeting too. The bulk of it has been seen earlier in the press release that followed the meeting

103. Five statements are given below, labelled a, b, c, d and e. Among these, four statements are in logical order and form a coherent paragraph. From the given options, choose the option that does not fit into the theme of the paragraph.

- (a) Notwithstanding the good monsoon this year after back-to-back drought years, most commentators agree that the rural economy and the agricultural sector may not be out of distress.
- (b) Recent attempts by Rahul Gandhi to mobilize farmers during his Kisan Yatra might not revive the fortunes of the Congress party in Uttar Pradesh, but they did contribute to bringing the issues of farmers and agriculture to the political mainstream.
- (c) It is also worth mentioning that most of them were seen as leaders of dominant farming communities or caste groups that benefited from rising profitability and price support.
- (d) Given that almost half of the total workers in the country are still engaged in farming and the majority of households in rural areas are still dependent on agriculture, directly or indirectly, issues confronting the farming community are naturally an important electoral plank.
- (e) More so in an environment where rural areas, and the agricultural sector in particular, have been in some distress in recent years.

104. Five statements are given below, labelled a, b, c, d and e. Among these, four statements are in logical order and form a coherent paragraph. From the given options, choose the option that does not fit into the theme of the paragraph.

- (a) Dyn is a part of the backbone of the Internet, since it is one of the companies that provides domain name services or DNS to Internet users, and translates simple English-based commands like "livemint.com" typed into a browser into the actual numeric addresses that the Internet's computers use to identify each website.
- (b) Security firm Flashpoint has said that it believes that seemingly innocuous items such as video recorders, webcams, closed-circuit security cameras and the like were taken over by malware, and then, without their owners' knowledge, were used to help execute the massive cyber attack
- (c) This outage was astonishing in its ferocity, especially since it co-opted the much vaunted Internet of Things (IoT) into the attack.
- (d) It claims that hundreds of thousands of such devices were co-opted into the attack by being infected with malware.
- (e) This malware, called Mirai, was released by an anonymous hacker named Anna-senpai some weeks ago.

105. Five statements are given below, labelled a, b, c, d and e. Among these, four statements are in logical order and form a coherent paragraph. From the given options, choose the option that does not fit into the theme of the paragraph.

- (a) The mathematician Richard K. Guy is arguably best known for discovering a glider. Assuming that's an intriguing-enough opening, let me explain. In 1970, the British mathematician John Conway invented a board game called, simply, "Life".
- (b) Life happens on a grid of squares that stretch in every direction (imagine an infinite chessboard). Each square, or cell, is either alive or dead (or call it black or white, filled or empty).
- (c) Now, this is not a game in the conventional sense: there's no way to "win", nor do you play against an opponent. In fact, Life doesn't even need a player as it proceeds. You just set up an initial state and then watch what happens.
- (d) To start, you choose a certain number of cells to be live—at random, or in a pattern, whatever. Each cell now evolves according to a set of rules that considers its eight neighbours (left, right, above, below, and on the four corners).
- (e) This is the endlessly fascinating question Conway's game raises, and this is why it was and remains today a much discussed favourite among mathematicians and computer scientists.

Directions (106-109): In each of the following sentences four options are given. You are needed to identify the best way of writing the sentence in context of the correct usage of standard written English.

106. The entire cast and crew of the film, enjoyed splashing in the pool, bathing in the ocean, and, particularly, to sun bathe on the shore.

- (a) The entire cast and crew of the film, enjoyed splashing in the pool, bathing in the ocean, particularly to sun bathing on the shore.
- (b) The entire cast and crew of the film, enjoyed splashing in the pool, to have a bath in the ocean, and, particularly, to sun bathe on the shore.
- (c) The entire cast and crew of the film, enjoyed swimming in the pool to bathe in the ocean, and, particularly sun bathing on the shore.
- (d) The entire cast and crew of the film, enjoyed swimming in the pool, bathing in the ocean, and, particularly, sun bathing on the shore.
- (e) No error.

107. No officer had ought to be put into a situation where he was to choose between his love for his family and the responsibilities accompanying his duty.
- No officer would be put in a situation where he have to choose between his love for family and the responsibilities accompanying his duty.
 - No officer had ought to be put into a situation in which he has to choose between his love for his family and the responsibilities accompanying his duty.
 - No officer should be put into a situation where he has to choose between his love for his family and the responsibilities accompanying his duty.
 - No officer ought to be put into a situation in which he has to choose between his love for this family and the responsibilities accompanying his duty.
 - No error.
108. Being a realist, the detective could not accept the statement of the accused that UFOs had caused the disturbance.
- Being a realist that he was, the detective could not accept the statement of the accused that UFOs had caused the disturbance.
 - Since he was a realist, the detective could not accept the statement of the accused that UFOs had caused the disturbance.
 - Being that he was a realist, the detective could not accept the statement of the accused that UFOs had caused the disturbance.
 - Realist that he was, the detective could not accept the statement of the accused that UFOs had caused the disturbance.
 - No error
109. If we cooperate together by dividing up the booty, we shall be able to work together smoothly in the future.
- If we cooperate with one other by dividing up the booty, we will be able to work smoothly together in future.
 - If we cooperate by dividing up the booty, we shall be able to work together smoothly in the future.
 - If we cooperate by dividing up the booty together, we shall be able to work together smoothly in the future.
 - If we cooperate with each other by dividing the booty, we shall be able to work together smoothly in the future.
 - No error.
110. A very stout, ridged, hairy stem, the **petioled** leaves **compounded** of three broadly ovate, lobed and saw-edged divisions, downy on the underside, and the great **umbels**, which sometimes measure a foot across, all **bear out** the general impression of a Hercules of the fields.
- bracken, comprised, flower, bear out
 - stemmed, composited, cluster, borne off
 - axis, consist, species, bore
 - rooted, embraced, flora, bear
 - No error
111. The judge **charged him** with a **penalty** rather than a prison sentence **yet** it was his first **misdemeanour**.
- indicted him, penance, as, mistake
 - freed him, sanctions, because, fault
 - vindicated him off, penalty, even though, wrongdoing
 - let him off, fine, since, offence.
 - None of these
112. Following the **footsteps** of many of his predecessors, he promptly **accorded** his election "capitulation" as a/ an **infraction** on the divinely **granted** prerogatives of the Holy Sea.
- pavement, adhered, dereliction, bequeath
 - ideals, abjured, preservation, conferred
 - example, repudiated, infringement, bestowed
 - specimen, forbared, contravention, entrusted
 - None of these
113. "We **perceive** data science and data engineering **looming** as job roles this year. **In harmony with** the current trend, technical roles such as software developer and non-technical role such as digital marketing took top two spots as the most popular job **wholes**," Aspiring Minds Co-Founder and CEO Himanshu Aggarwal said.
- notice, receding, In step with, levels
 - recognize, dawning, In compliance with, searches
 - cloak, appearing, In accordance with, types
 - see, emerging, In line with, categories
 - None of these
114. The EU **inquired** to the crisis by implementing a series of financial **relief** mechanisms, such as the European Financial Stability Fund and the European Stability Mechanism, to **furnish** emergency loans to those countries most affected by **advancing** interest rates.
- reacted, sustain, divest, mounting
 - responded, support, provide, skyrocketing
 - rebutted, aid, deliver, plummeting, escalating
 - excavated, support, disburse, spiraling
 - None of these

Directions (110–114): Which of the words/phrases (a), (b), (c) and (d) given below should replace the words/phrases given in bold in the following sentences to make it meaningful and grammatically correct. If the sentence is correct as it is and 'No correction is required', mark (e) as the answer.

Directions (115–116): Sentences given in each question, when properly sequenced form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order of sentences amongst the five choices given to construct a paragraph.

115. (A) The newspaper man, the flower seller, the milkman, the sweeper, they are all privy to the chatting and sharing of news that the elderly find comforting.
 (B) When we remove them from their homes, it is not only the family that they are being removed from, but all those other people that they see every day and whose joys and woes become their own.
 (C) In our system of living, the elderly at home have a circle of acquaintances, and friends.
 (D) The loneliness of the discarded elderly is manifold.
 (E) When we forcibly remove people from surroundings they have been part of for decades we put an un-mendable tear in the fabric of their lives.
- (a) DECAB (b) ABDCE (c) ECADB
 (d) DBAEC (e) CBAED

116. (A) Some of the worst cancers aren't detected by screening.
 (B) The only way to be sure is to look at the results of randomized trials comparing cancer deaths in screened and unscreened people.
 (C) So how can we be confident that getting a screening test regularly is a good idea?
 (D) Even when screening "works" in such trials, the size of the benefit observed is surprisingly low: Generally, regular screening reduces fatalities from various cancers between 15 percent and 25 percent.
 (E) They appear suddenly, between regular screenings, and are difficult to treat because they are so aggressive.
- (a) DBAEC (b) AECBD (c) ADBEC
 (d) ACBED (e) ACBDE

Directions (117–120): Read each of the following four sentences to find out whether there is any grammatical mistake/error in it. Choose the sentence with no grammatical error as the correct answer. If all of the given sentences are grammatically incorrect, mark (e) as an answer.

117. (a) John Wanamaker, founder of the stores that bear his name, once confessed, I learnt 30 year ago that it is foolish to scold.
 (b) Whether rich or poor, American or Indian, we all have the same emotions deep with us.

- (c) This research indicate that we can no longer avoid significant warning during this century.
 (d) Every modern society depends on the trust in the skills and ethics of a variety of institutions such as schools and colleges, hospital and markets.
 (e) None of these

118. (a) Many of us have learnt not to make a public display of our emotions, particularly when they are negative.
 (b) Though Indians have been increasingly taking up corner office in the international companies, Rahul is the first Indian to lead one of the top four accounting firms globally.
 (c) Democracy was suspended not because it came under existential threat but because it has become an obstacle to political ambitions trotted out as the nation's solution.
 (d) A virtual takeover of a bankrupt civil society by a coterie of individuals whom cornered tremendous power by being able to represent the state.
 (e) None of these

119. (a) India has decided do away with the practice of put each imported food consignment through lab checks and switch to the international norm of random and risk based inspections.
 (b) SP Sumit singh , along with Devesh Panday and DSP Hasan, headed separate terms that include cops from six police stations and investigators from the district police crime cell.
 (c) Our emission standards are one-tenth that of global averages and far more stringent than even Europe.
 (d) The university has received about 500 applicants for the course, out of them 50 will be shortlisted for the programme.
 (e) None of these

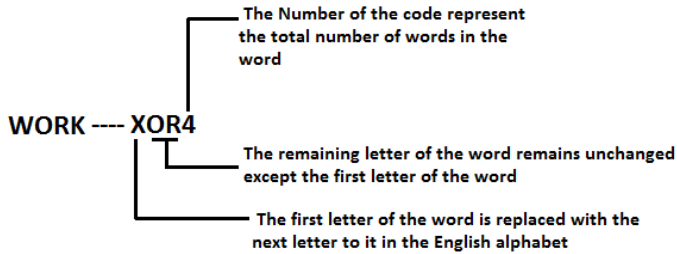
120. (a) The Reserve bank of India lifted the ban upon imports of gold coins and medallions by banks and trading houses.
 (b) President Pranab Mukherjee inaugurated Indian international trade fair 2016 in Pragati maiden in new Delhi.
 (c) Three Indian, two women and one man were among the shortlisted 100 applicants whom were chosen for one-way trip to mars under one mission.
 (d) Fasting not only deoxifies the system but also gives a person training in endurance, a spirit of acceptance and self control.
 (e) None of these

Solutions

REASONING ABILITY

Direction (1-4): These coding decoding questions are based on the latest pattern. Following logic is applied to decode the code.

- (i) The first Letter in the code represents the next letter of the first letter of the word (A-B, E-F, I-J, L-M, F-G... etc.).
- (ii) The number at the end of the code represent the total number of letters in the word.
- (iii) The remaining letter in the word are written down as it is without changing their position.



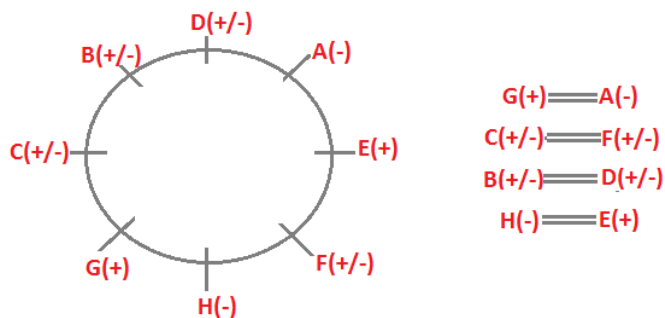
1. (c); None5 Mas4 Farnin7 Xa3
2. (c); Hoo4 Qerfec7 Blway6 Qeopl6
3. (e); Blway6 Ienc5 Ianc5 Xron5
4. (b); Garmin7

Direction (5-10):

Unit	Total Height	Country	Height of books + height of Boxes
5	55"ft	Sydney	28"ft + 27"ft
4	37"ft	Paris	20"ft + 17"ft
3	32"ft	Beijing	16"ft + 16"ft
2	53"ft	London	30"ft + 23"ft
1	75"ft	Zurich	35"ft + 40"ft

5. (c); 6. (d); 7. (e);
8. (d); 9. (b); 10. (b);

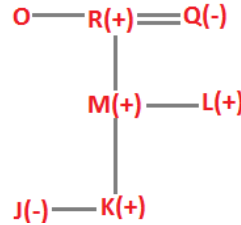
Direction (11-15):



11. (d); 12. (b); 13. (c);
14. (a); 15. (d);

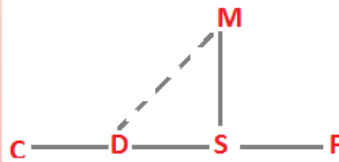
16. (b); Even after using all the statements, we can only say that the tallest will be either F or B but we cannot definitely say that who is the tallest.

17. (e); Using statement I and III we get our blood relation tree in which M is the nephew of O.



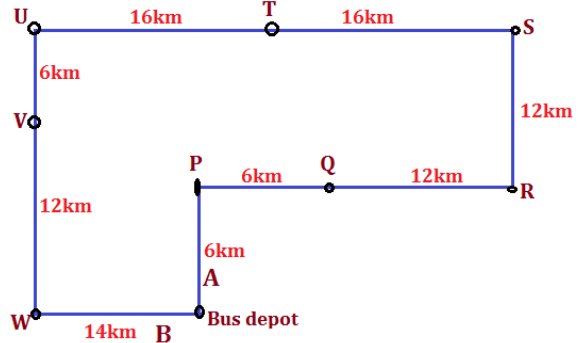
18. (e); Using statement I and III we get our final answer that 'V' is the tallest among all of them. V > T > U > X > W > S

19. (a); From Statement II and III we get our final answer in which point D is in the southwest direction with respect to point M.



20. (c); How can the strategy to curb molestation of woman be effective if the responsibility to carry out the strategy is on the shoulders of those cops who have been accused of heinous charges against women. so option (c) is the correct option.

Directions (21-25):

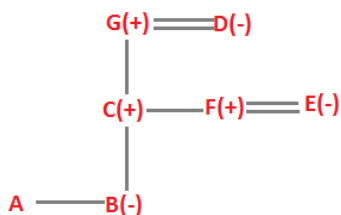


21. (b); 22. (d); 23. (a);
24. (c); 25. (d);

26. (a); The question was put to people who were coming out of the terminal about the services aboard the flight. If it was shown that a majority of people coming out of the terminal were not passengers, Then the conclusion would really be jeopardized. (a) does just that.

Direction (27-32):

$$G > D > F > C > E > A > B$$



27. (c); 28. (d); 29. (b);

30. (e); 31. (c); 32. (e);

33. (e); Only I follows. What is being told is genuine. On learning this, the blood donors will get attracted by the win-win proposition, thus simultaneously meeting the blood requirement to a large extent. Statement II is not a practical course of action. Statement III is not an immediate course of action as blood banks can be created only after the sufficient blood donors are available.

34. (a); Because of the statement (B), government has decided to roll back the hike in the prices of cooking gas and kerosene.

35. (b); As he found cockroaches in the crevices, he immediately drew the attention of the catering manager. So statement (B) is the effect of statement (A).

Direction (36-40):

Year	Person
1969	C
1972	B
1978	H
1981	A
1989	F
1997	E
2000	G
2005	D

36. (b); 37. (d); 38. (b);

39. (e); 40. (c);

QUANTITATIVE APTITUDE

41. (b); Required Ratio = $\frac{200+280}{380+420} = \frac{480}{800} = \frac{3}{5}$

42. (b); Number of defective products
 $= \frac{20}{100} (160 + 480)$
 $= \frac{20}{100} (640) \Rightarrow = 128$

43. (a); Required percent = $\frac{180}{300} \times 100 = 60\%$

44. (b); Required percent = $\frac{560-480}{480} \times 100$
 $= \frac{80}{480} \times 100$
 $= \frac{100}{6} \% \Rightarrow = \frac{50}{3} \%$
 $= 16\frac{2}{3} \%$

45. (d); Difference = $(480 + 200 + 520) - (160 + 280 + 380)$
 $= 1200 - 820 \Rightarrow = 380$

46. (e); Required ratio = $\frac{45 \times 40}{60 \times 30} \times \frac{2}{1} = \frac{2}{1}$

47. (a); Let the total number of population of village B be x
 $x \times \frac{60}{100} \times \frac{10}{100} \times \frac{1}{2} = 300 \Rightarrow x = 10000$

48. (e); Number of people having Bank Account in village C = $0.6x$
 Number of people having Bank account in village D = $0.55 \times 2x = 1.1x$
 Required percentage = $\frac{1.1x - 0.6x}{1.1x} \times 100$
 $= \frac{0.5}{1.1} \times 100 \Rightarrow = 45.45\%$

49. (d); Required Percentage
 $= \frac{1 \times 0.45 + 2 \times 0.6 + 3 \times 0.6}{1+2+3} \times 100$
 $= \frac{3.45}{6} \times 100 = 57.5\%$

50. (b); Required percentage = $\frac{60-40}{40} \times 100 = 50\%$

51. (d); A: $3T = 7C$
 B: $T - C = 900$
 C: $T = C + C \times \frac{400}{3 \times 100} = \frac{7C}{3}$

52. (e); A → Amount = 9331.2, time = 2 year
 B → difference between CI and SI = 51.2 for two years
 C → P → 8000
 From A & B
 $P(1 + \frac{r}{100})^2 = 9331.20 \dots\dots(i)$
 $P(\frac{r}{100})^2 = 51.20 \dots\dots(ii)$
 Dividing (i) and (ii)
 $r = 8\%$
 From B & C
 $51.2 = \frac{8000 \times R^2}{100^2}$
 From A and C
 $8000(1 + \frac{r}{100})^2 = 9331.20$
 $r = 8\%$

53. (d); (A)

	Q	P
efficiency	1.6	1
time	1	1.6

$1.6t = 8$
 $t = 5 \text{ days}$
 time taken by Q is 5 days
 (B)
 $\frac{1}{p+q} = \frac{1}{p} + \frac{1}{q}$

$$\frac{13}{40} = \frac{1}{8} + \frac{1}{q}$$

$$\frac{1}{q} = \frac{13-5}{40} = \frac{1}{5}$$

$q = 5$ days

(C)

	P	Q
efficiency	$\frac{125}{2}$	100
time	8	5

Time taken by Q is 5 days

54. (e); from A, B & C
 Non-voting population of a certain country
 $= \frac{70}{100} \times 30$ million
 $= 21$ million

55. (b); Profit = 300
 $A \rightarrow CP = 1200 - 300 = 900$
 $\% \text{ profit} = \frac{300}{900} \times 100 = 33\frac{1}{3}\%$
 $B \rightarrow 25\% \rightarrow 400$
 $1\% \rightarrow 16$
 $100\% \rightarrow 1600$
 $CP = 1200 - 300 = 900$
 $\% \text{ profit} = \frac{300}{900} \times 100 = 33\frac{1}{3}\%$
 $C \rightarrow \% \text{ profit} = \frac{300}{900} \times 100 = 33\frac{1}{3}\%$

56. (a); $x = \pm 12$
 $y = 12, 12$
 $\therefore x \leq y$

57. (a); $x = 2, \frac{5}{2}$
 $y = 4, \frac{5}{2}$
 $\therefore x \leq y$

58. (a); $x = 7, 8$ $y = 5, 1$
 $x > y$.

59. (c); $x = \frac{102}{200}$
 $x = 0.51$
 $y = \frac{200}{160} \Rightarrow y = 1.25$
 $y > x$

60. (c); $x = 183$
 $y = 200$
 $x < y$.

61. (c); Let pipes A and B takes t minutes together.
 A will take $(t + 3)$ minutes to fill the tank
 B will tank $(t + \frac{64}{3})$ minutes to fill the tank
 $\frac{1}{t+3} + \frac{3}{3t+64} = \frac{1}{t}$
 $\frac{1}{(t+3)(3t+64)} = \frac{1}{t}$
 $6t^2 + 73t = 3t^2 + 64t + 9t + 192$
 $3t^2 - 192 = 0$
 $(t^2 - 64) = 0$
 $t = 8$ minutes

62. (d); Marks of T = 75
 Marks of R = 65
 Marks of Q = 110
 Marks of P = 85
 Marks of U = 120
 Maximum marks = 200
 Required percentage = $\frac{120}{200} \times 100 = 60\%$

63. (d); Let the largest and smallest angles be $3x$ and x . Now
 $x + 3x + 56 = 180$
 $x = 31$
 largest angle = 93° .

64. (a); Let the odd numbers be $x, x + 2, x + 4, x + 6$ and the even numbers be $y, y + 2, y + 4$.
 Now $(4x + 12) - (3y + 6) = 20$
 And $(y + 4) - (x + 6) = 5$
 Solving them, we get $x = 35$ and $y = 42$
 Required sum = $35 + 42 = 77$

65. (b); Let initial CP of book is x .
 CP to Shishir = $\frac{120}{100} \times \frac{125}{100} \times \frac{90}{100} x = 1.35x$
 Required percentage decrease = $\frac{1.35x - x}{1.35x} \times 100 = 25.92\%$

66. (d); $5\% SP \rightarrow 14$
 $SP \rightarrow 280$
 $1.4CP = 280 \Rightarrow CP = 200$
 $New SP = \frac{80}{100} \times 280 = 224$
 $Profit = 224 - 200 = 24$

67. (b); $P_1(1 + \frac{10}{100})^2 = P_2(1 + \frac{10}{100})^3$
 $\frac{P_1}{P_2} = \frac{11}{10}$
 $P_2 = \frac{10}{11} \times 10500 = 5000$

68. (a); Total amount = $9000(\frac{8 \times 2}{100} + \frac{9.5 \times 4}{100} + \frac{11 \times 2}{100} + \frac{12 \times 4}{100}) + 9000 = 11160 + 9000 = 20160$

69. (a); Ratio of investment
 $A : B : C$
 $(8000 \times 12) : (12000 \times 4) + (16000 \times 8) : (16000 \times 9) + (12000 \times 3)$
 $24 : 44 : 45$
 Share of A = $\frac{24}{113} \times 22600 = \text{Rs. } 4800$

70. (a); Let speed of the trains be x, y km/h
 $ATQ,$
 $\frac{92}{x+y} = 4, x+y = 23$
 Also,
 $x - y = 7$
 $x = 15 \text{ kmph} \Rightarrow y = 8 \text{ kmph}$

71. (b);

Total efficiency = $\frac{9}{2}$
 Time = 2 hours

72. (a); At the three years amount will be = $15000 + \frac{15000 \times 3 \times 8}{100}$
 = 18600 Rs.
 Now, after three years C.I. annually
 So amount = $18600 \left(1 + \frac{10}{100}\right)^2$
 = 22506 Rs.

73. (e); AB = 60 km
 Ram's speed = x kmph
 Syham's speed = y kmph $\frac{60}{x} - \frac{60}{y}$
 = 1(i)
 $\frac{60}{y} - \frac{60}{2x} = \frac{1}{2}$ (ii)
 From (i) and (ii)
 $x = 20$ kmph

74. (d); Let initially Cask holds V litres of wine

$$\frac{\text{Amount of wine left}}{\text{Initial Amount of wine}} = \left(1 - \frac{6}{V}\right)^2$$

$$\frac{121}{121+23} = \left(1 - \frac{6}{V}\right)^2$$

$$\frac{121}{144} = \left(1 - \frac{6}{V}\right)^2$$

$$\frac{11}{12} = 1 - \frac{6}{V}$$

$$\frac{6}{V} = \frac{1}{12}$$

$$V = 72 \text{ litres}$$

75. (c); Distance travelled by passenger train in
 $(9 - 4) = 5$ hours
 = $5 \times 30 = 150$ km
 time required to cross the passenger train by mail
 train = $\frac{150}{(45-30)} = 10$ hour
 so second train will overtake the first, 10 hours after
 the second train starts

76. (e); $\times 0.5 + 1, \times 1 - 1, \times 1.5 + 1, \times 2 - 1, \times 2.5 + 1$
 $22 \times 2.5 + 1 = 56$

77. (c);

8	14	25	46	82	?
6	11	21	36	56	
5	10	15	20		

$82 + 56 = 138$

78. (d); $\times 1 + 1, \times 2 + 2, \times 3 + 3, \times 4 + 4, \times 5 + 5$
 $93 \times 4 + 4 = 372 + 4 = 376$

79. (c); $\times 3 + 1, \times 3 + 2, \times 3 + 3...$
 $\therefore 477 \times 3 + 4 = 1431 + 4 = 1435$

80. (d); $\times 7 + 1, \times 6 + 2, \times 5 + 3, \times 4 + 4, \times 3 + 5...$
 $\therefore 22 \times 6 + 2 = 134$

ENGLISH LANGUAGE

81. (c); 'The recovery from the crisis of 2008 was tepid' suggests that (a) is not the correct option. Passage is silent about any sort of verdict hence (b) is also not the correct option. No governmental barriers have been described in the passage. Hence, (d) is also not the answer.

In the fifth paragraph it is given that 'there were severe supply bottlenecksAgricultural production fell sharply in 2009-10 because of a severe drought.....'. Hence, (c) is the correct option.

82. (d); In the second last paragraph, it is given that '....."ease of doing business" (i.e.) bureaucratic hurdles which impede speedy execution of projects need to be removed....' Hence, (d) is the correct option.

Red tapism: It refers to excessive regulation or rigid conformity to formal rules that is considered redundant or bureaucratic and hinders or prevents action or decision-making.

Bureaucracy: A system of government in which most of the important decisions are taken by state officials rather than by elected representatives.

83. (d); According to author, the incremental capital output ratio depends on current account deficit (and not fiscal deficit). Hence (d) is the correct option.

NOTE: Fiscal deficit is when a country spends more on government spending than it takes in taxes and borrowing. Definition of 'Current Account Deficit Occurs when a country's total imports of goods,

services and transfers is greater than the country's total export of goods, services and transfers.

84. (c); It is given in the passage that 'the growth rate achieved in the high phase period of 2005-06 to 2007-08 was robust.' hence we can't infer the same about the whole decade. Besides this, the mentioning of depression of 2008 also suggests that (c) is the correct option.

85. (e); It is given in the last paragraph of the passage that 'The Indian economy in the recent past has shownhigh growth is very much in the realm of possibility' from which we can infer that it is the past performance of the Indian economy on the basis of which the given conclusion has been made. No option suggests this. Hence, (e) is the correct option.

86. (d); Clearly 'Can India grow fast: An introspection' is the apt title for the given passage.

87. (b); 'Accretion' means 'increase by the gradual accumulation of additional layers or matter'. Hence 'Accumulation' is the word which is most similar in meaning to it.

88. (a); 'Impede' means 'delay or prevent (someone or something) by obstructing them'. Hence 'Delay' is the word which is most similar in meaning to it.

89. (c); Throughout the passage the author has tried to explain the actual reason behind the vote against EU.

90. (b); Refer to the 2nd paragraph of the passage, "European Central Bank sets a common monetary policy stance for all member countries" and in the answer single market is mentioned which is the same thing and hence is the common source of irritation for member countries.
91. (c); Refer to the 2nd paragraph of the passage, "They think that control has moved to unelected bureaucrats in Brussels." which is why some section atleast voted against EU.
92. (a); Option (ii) is incorrect as author thinks it is the arrangement that is the real devil and not the globalization.
93. (e); None of the options mentioned above are correct.
94. (d); evoked means bring or recall (a feeling, memory, or image) to the conscious mind hence elicit is the word most similar in meaning.
95. (b); Spate means a large number of similar things coming in quick succession hence deluge is the word most similar in meaning.
96. (d); "Stalwart, extraordinary, opportunities" is the correct choice.
Stalwart means loyal, reliable, and hard-working.
97. (a); "threatened, retaliatory, weapons" is the correct choice.
Retaliatory means the action of returning a military attack; counter-attack."
98. (b); **Invocation** means the action of invoking someone or something.
Proletariat means working-class people regarded collectively (often used with reference to Marxism).
99. (c); "responsibility, misrepresent, inhabit" fits the blanks most appropriately.
100. (e); **patriarchal** means relating to or denoting a system of society or government controlled by men.
Prohibits means formally forbid (something) by law, rule, or other authority.
101. (d); Only option (d) is not a part of the coherent paragraph as other options form an opening to an article the option (d) talks about the sustainability of "New Urban Agenda" which is not yet mentioned.
102. (b); Only option (b) is not a part of the coherent paragraph as the reason for the call made by the Indian corporate sector for lower interest rates and a competitive exchange rate on an auto-replay mode is not given and thus is redundant in this paragraph and does not fit into the theme of the paragraph.
103. (c); Option (c) is the one that doesn't fit the theme of the paragraph properly as from the other options it can be concluded that paragraph is an introductory part of the article while option (c) is not the part of this paragraph, it can be indicated by 'most of them' as we don't know anything about them.
104. (a); Option (a) is the one which is not a part of the coherent paragraph as we can see the other options are talking about the effects and the shock that is caused by the malware option (a) is just defining a term Dyn hence is the correct choice.
105. (e); Option (e) is correct as it does not fit into the theme of the paragraph.
106. (d); Parallel structure requires the use of the verbal noun as the object of the verb enjoyed: Enjoyed what? Splashing, bathing; and sun bathing, enjoy should not be followed by an infinitive construction.
107. (c); This is the most correct and concise form of the sentence.
108. (e); There is no error in the original sentence.
109. (d); Both together and up are unnecessary since their meaning is included in the words cooperate and divide.
110. (e); There is no error in the given sentence.
Bear out - to support or confirm a story or explanation
petioled - the stalk that joins a leaf to a stem.
Compounded- make up (a composite whole); constitute.
Umbels- a flower cluster in which stalks of nearly equal length spring from a common centre and form a flat or curved surface, characteristic of the parsley family.
111. (d); Option (d) is the correct choice.
Let off is a **phrasal verb** which means to allow (someone who has been caught doing something wrong or illegal) to go without being punished.
Fine- a sum of money exacted as a penalty by a court of law or other authority.
Since - for the reason that; because.
Offence - a breach of a law or rule; an illegal act
112. (c); Option (c) is the correct choice.
bestowed means confer or present (an honour, right, or gift).
repudiated means refuse to accept; reject.
infringement means the action of breaking the terms of a law, agreement, etc.; violation.
113. (d); Option (d) is correct.
see- experience or witness (an event or situation).
emerging- become apparent or prominent.
In line with- in alignment or accordance with.
Categories- a class or division of people or things regarded as having particular shared characteristics.
114. (b); Option (b) is correct choice.
responded- do something as a reaction to someone or something.
support- give assistance to, especially financially.
provide- make available for use, supply.
skyrocketing- increase very steeply or rapidly.
115. (a); 116. (b); 117. (d);
118. (a); 119. (c); 120. (d);