Roll No.



QUEENS' COLLEGE, INDORE SESSION: 2021-22 PREBOARD TERM-II

Class: X

Max. Marks: 40

Subject: SCIENCE
Time Allotted: 2 Hours

Date: 22-02-2022

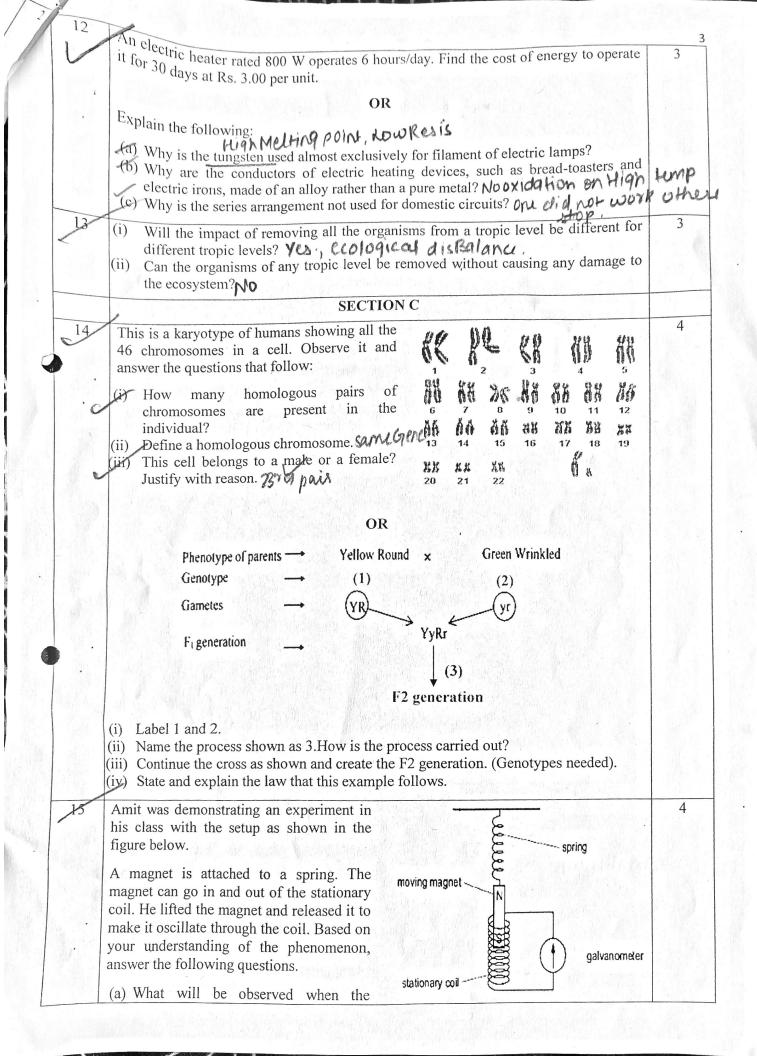
## **General Instructions:**

- 1. All questions are compulsory.
- 2. The question paper has three sections and 15 questions. All questions are compulsory.
- 3. Section—A has 7 questions of 2 marks each; Section—B has 6 questions of 3 marks each; and Section—C has 2 case based questions of 4 marks each.
- 4. Internal choices have been provided in some questions. Students have to attempt only one of the alternatives in such questions.
- 5. There are 15 questions in this paper, internal choice is given in few questions.

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(ii) Give the alleles for the seed colour and shape of seed in pea plant.  OR  group AB marries a woman with blood group O. inch + io = inco   pae + io = io = io = io   pae + io = io		(i) Define an allele.	2
Sive the genotypes and phenotypes of the children produced when a man with blood group O. 1 <sub>16.4</sub> + 1 <sub>0.7</sub> 1 <sub>16.9</sub>   PRE × PYEM  State the various ways of increasing the strength of magnetic field inside a solenoid.  What are magnetic lines? Write properties of magnetic field lines.  (i) Ozone layer in the stratosphere is considered as a boon and also is harmful. Justify.  OR  Look at the pyramid of energy drawn for an ecosystem.  Products  Herbisore  Carrinore  Or  Write the limitations of Mendeleev's periodic table. (Any Three) fups Mexicol  (a) How many isomers are possible for the compound with the molecular formula  CH3? Draw the electron dot structure of branched chain isomer.  (b) How will you prove that CaH6OH and CsH11OH are homologues?  OR  (i) Write the name and formula of the 2 <sup>nd</sup> and 3 <sup>rd</sup> member of the series of carbon compounds whose lst member of the family is ethyne. Declayor 160 yrd.  Write Catenation. Adb MAK1OP  (iii) Why carbon cannot form ionic compounds whose lst member of the family is ethyne. Declayor 160 yrd.  A person crossed pure-breed tall pea plants with pure-breed dwarf pea plants and obtained pea plants of F1 generation. He then performed two types of experiments. In the first, he self-crossed the plants of F1 generation and in the second, he crossed the plants of F1 generation. He then performed two types of experiments. In the first, he self-crossed the plants of F1 generation in both the experiments?  (i) Make crosses to show both the experiments.  (ii) Make crosses to show both the experiments.  (iii) What would be the phenotypes of the plants in the F2 generations in both the experiments?  (iii) Give the genotypic ratios of F2 generations in both the experiments?  (iii) Give the genotypic ratios of F2 generations in both the experiments in the three cases?  (iv) 12 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2		(ii) Give the alleles for the seed colour and shows of the seed colour and	2
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Induced current

magnet starts oscillating through the coil? Explain the reason behind this observation. deflection in Galvernmutus

(b) What is the principle which Amit is trying to demonstrate? Etco Magnutic Induction

(c) Consider the situation of

(c) Consider the situation where the magnet goes in and out of the coil. State two changes which could be made to increase the deflection in the galvanometer.

Motion, turns in call or

Is there any difference in the observations in the galvanometer when the magnet swings in and then out of the stationary coil? Justify your answer.

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TOR By selling a electromagnet account near it