Python Most Imp Questions

UNIT 1	
1.	What is dynamic typing? Explain with example and also explain the advantages and disadvantages of it
2.	What is type conversion and indentation ?
3.	Solve the following question a & b << 2 // 5 ** 2 + c ^ b a=3,b=5,c=10

Gateway Classes

UNIT 2

Try to do other program also, as there is so many possibility of program	
1.	Write a program to find out whether a year is leap year or not
2.	Write a Python program to sum and multiply all the items in a dictionary/list
3.	Write a Python program to find the list words that are longer than n from a given list of words.
4.	Python program to find the second smallest/largest number in a list and also explain while and do while loop
5.	write a program to check whether entered number is Fibonacci number or not
6.	Write a Python program to print the numbers of a specified list after removing even numbers from it

Gateway Classes

UNIT 3

1.	Explain some methods of string, list and dictionary with example
2.	What is list slicing, list comprehension? Why list called mutable? Iustrate different list slicing constructs for the following operations on the following list:L= [1, 2, 3, 4, 5, 6, 7, 8, 9] (i) Return a list of numbers starting from the last to second item of the list (ii)Return a list that start from 3rd item to second last item
3.	Write a function make Pairs that takes as input two lists of equal length and return a single list of same length where kth element is the pair of k element from the input list For example Make Pairs([1,,3,4,5],[2,3,4,9]) Return[(1,2),(3,3),(4,4),(5,9)] Make Pairs([],[]) Return[]
4.	Write a program that accepts a sentence and calculate the number of digit, uppercase and lowercase
5.	Write a program to check whether a string is a palindrome or not
6.	Consider a function perfect_square(number) that returns a number if it is perfect square otherwise return-1
7.	Write a program to check whether a string is a palindrome or not .

Gateway Classes

UNIT 3

8.	Construct a program that accepts a comma separated sequence of word as an input and prints the word in a comma- separated sequence after sorting them alphabetically.
9.	What is tuple. Explain the unpacking of tuple. Explain the operation applied on tuple
10	Write a python function removekth (s,k) that takes as input a string and integer k>=0 and remove the character at index k. if k is beyond the length of s, the whole of s is returned For example removekth(“python”,2) return pyhon Removekth(“mango”,1)return mngo
11	Write a python program ,count_square(N) that returns the count of perfect square less than or equal to N(N>=1) for example count_square(1) return 1 only prefect square less than equal to 1 count_square(5) return 2 (1, 4 are the prefect square less than equal to 2 count_square(55) return 7 (1,4,9,16,25,36,49)<=55
12.	Explain different functional argument with example. Write a program to construct calculator using function

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UNIT 4

1.	What is file handling? Explain the advantages and disadvantages and write the file opening modes
2.	Construct a program which accepts a sequence of words separated by whitespace as file input. Print the words composed of digits only.(AKTU
3.	Write a program that a take space separated words and convert the digit into English word Like Hello 1 2 Output hello one two
4.	There is a file named input.txt .Enter some positive number into the file name input.txt. Read the content of the file and if it is an odd number write it to odd.txt and if number is even the write it to the even.txt
5.	Construct the python program to count the number of letter and digits in given input string into a file object

Gateway Classes

UNIT 5

1.	What is numpy , pandas, matplotlib
2.	What is python? How python is interpreted? What are the toolsthat help to find bugs or perform static analysis? What are python decorators?
3.	Describe how to generate random number using numpy. writea python m program to create an array of 5 random number integer between 10 and 50
4.	Any chat making program(see matplotlib)
5.	What is trinket? Explain some of its widget with example

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