

2 Marks

10 x 2 = 20

1) Which of the following can be used as valid variable identifier(s) in Python?

- (i) total
- (ii) > selute
- (iii) Que\$tion
- (iv) great

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2) What will be the result of following functions

- 1. Unicode (3 + 2j)
- 2. Str (015)
- 3. Complex (3,2)
- 4. long (5.7)

3) Write a Python program that accepts two integers from the user and prints a message saying if first number is divisible by second number or if it is not.

4) Find the errors from the following codes:

```
c=dict()  
n=input(Enter total number)  
i=1  
while i < =n:  
a=input("enter place")  
beinputt"enter number")  
c[a]=b  
i=i+1  
print ("place", "\t", "number")  
for i in c:  
print (i, "\t" ,c[a[i]])
```

5) What do you understand by local and global scope of variables? How can you access a global variable inside the function, if function has a variable with same name.

6) Differentiate between Built-in functions and functions defined in modules.

7) What is a default parameter? How is it specified?

8) Write a method in Python to read lines from a text file DIARY.TXT, and display those lines, which are starting with an alphabet 'P'.

9) Write a function CountHisHer() in Python which reads the contents of a text file "Story.txt" and counts the words His and Her (not case sensitive).

10) Write a program that checks to see if the file name exists, it will give you an error message, if not, it will create the file.

3 Marks

5 x 3 = 15

11) Explain the two strategies employed by Python for memory allocation.

12) Write a program to input some numbers repeatedly and print their sum. The program ends when the user says no more to enter (normal termination). The program aborts if a negative number is entered.

13) Write definition of a method OddSum(NUMBERS) to add those values in the list of NUMBERS, which are odd.

14) Given a pickled log.dat file, containing list of strings. Write a python function that reads the file and looks for a line of the form  
Xerror: 0.2395  
whenever such line is encountered, extract the floating point value and compute the total of these error values. When you reach end of file print total number of such error lines and average of error value.

15) Write a program to use pickle module for reading and writing binary files.  
4 Marks 3 x 5 = 15

16) Write a program to input n numbers and to search any number from the list.

17) Write a program to search input any customer name and display customer phone number if the customer name exist in the list.

18) Consider the following unsorted list: 90 78 20 46 54 1  
Write the list after:  
(i) 4<sup>th</sup> iteration of bubble sort  
(ii) 5<sup>th</sup> iteration of insertion sort

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