Exam. Code : 107203
Subject Code : 2094

BCA 3rd Semester

COMPUTATIONAL PROBLEM SOLVING USING PYTHON

Paper—III

Time Allowed—3 Hours]   [Maximum Marks—75

Note :– (1) Attempt any **five** questions.

(2) Use of Non-Programmable, Non-Storage Calculator is permitted.

1. (a) Name Python Data Types.   5

   (b) Write the output for the following code :

       x = 10

       y = 20

       if (x > y):

       print x + y

       else :

       print x – y   5

   (c) Rectify the error (if any) in the given statements.

       >> str = "Hello Python"

       >> str[6] = 'S'   5

2. (a) What are the advantages of the Python dictionary type ?   5

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(b) Write a program in input any number and print all factors of that number. 5

(c) What all can be possible output of the following code ?

```
def myfunc (x=None) :
result = " "
if x is None :
result = "No argument given"
elif x = = 0:
result = "Zero"
elif 0 < x < = 3:
result = "x is between 0 and 3"
else:
result = "x is more than 3"
return result                     5
```

3. (a) Predict the output of the following program. Also state which concept of OOP is being implemented?

```
def sum(x, y, z) :
print "sum = ", x + y + z
def sum(a, b) :
print "sum =", a+b
sum(10, 20)
sum(10, 20, 30)                   5
```

(b) Define a class TravelPlan in Python with the following descriptions :

Private Members :

Plan Code of type long

Place of type character array (string)

Number_of_travellers of type integer

Number_ofbuses of type integer   10

4.   (a) Write a Python program that accepts a word from the user and reverse it.   7

(b) Write a Python program to convert month name to a number of days.

Expected Output :

List of months : January, February, March, April, May, June, July, August, September, October, November, December.

Input the name of Month : March

No. of days : 31 days   8

5.   (a) Write a Python program to get the largest number from a list.   7

(b) Write a Python program to print a specified list after removing the 0th, 4th and 5th elements.

Sample List : ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']

Expected Output : ['Green', 'White', 'Black']   8