Exam. Code: 107203 Subject Code: 2094

## **BCA 3rd Semester**

## COMPUTATIONAL PROBLEM SOLVING USING PYTHON

## Paper-III

Time Allowed—3 Hours]

y

[Maximum Marks—7:

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 opput 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.

$$>> str[6] = 'S'$$

. .

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

- (b) Write a program in input any number and p.int all factors of that number.
- (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

(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)

٥

5

543(2117)/BSS-30129 Download all NOTES and PAPERS at StudentSuvidha.com

(Contd.)

(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

- 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 ows.

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

- (a) Write a Python program to get the largest number from a list.
  - (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']

- 6. (a) Write a note on using Files in Python.
  - (b) Write a Python program to count the frequency of words in a file.
- Using Python code highlight use Python Modules and Top Down Design.
- 8. Using Python code highlight use Python API for querying DataBase Tables.