

Roll No.

Exam Code : M-21

Subject Code—52916

B. Sc. EXAMINATION

(Main/Reappear)

(Fifth Semester)

COMPUTER APPLICATION

CCAL-505

Skill Enhancement Course-I

Python Programming

Time : 3 Hours

Maximum Marks : 50

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory and which is of 18 marks.

Remaining all questions carry equal marks.

1. (a) Explain input function.
- (b) Discuss the need for learning python programming and its importance.

- (c) Trace a function call and explain the memory model of the following code :

Def f(x) :

X = 2 * x

return x

x = 1

x = f (x + 1)

- (d) Discuss the usage sep argument with respect to the print () function.
- (e) What do you mean by string method swapcase and isdigit ?
- (f) What are recursive solutions ?
- (g) What are class objects ?
- (h) What do you mean by PIP ?
- (i) Give the advantages of multi-threading.

$$9 \times 2 = 18$$

Unit I

2. Write a Python program using while loop to print N numbers divisible by 5. 8

3. Explain about identity operators in python. 8

Unit II

4. Explain break and continue statements with examples in Python. 8
5. What are default arguments ? Discuss with suitable arguments. 8

Unit III

6. Explain any *five* basic operations performed on string. 8
7. What are lists ? How to define and access the elements of lists ? 8

Unit IV

8. List and explain built in class attributes with examples. 8
9. Explain move_to(), move_by(), rotate_by(), Text (), Sound-Sound(), play_sound() with suitable example. 8