Code: 13A05806

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2017

PYTHON PROGRAMMING

(Computer Science & Engineering)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) Write steps to run a python script.
 - (b) Give an example for shared references.
 - (c) What is the use of membership operators?
 - (d) What will be the output of >> m = [[x, x+1, x+2] for x in range (0, 3)]?
 - (e) Give examples for any two usage of dictionaries data structure.
 - (f) What are the uses of comprehensions in python?
 - (g) How to pass arguments to a function in python?
 - (h) Give an example for local and global scope of the variables in a function.
 - (i) What is the need of testing?
 - (j) What is meant by override a method?

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

[UNIT – I]

2 Describe in detail about technical strengths of python.

OR

3 Describe about available I/O facilities in python.

UNIT – II

4 List out various string manipulation process that can be done in python with example code segment.

OR

5 Describe about control flow statements in python with an example.

(UNIT – III

What are the features of tuple data structure? Explain these features with example code in python.

OR

7 Explain all built-in methods for list data structure in python.

(UNIT – IV

Write a python program to define a function to sort a give array, passing as an argument. Also write main function to use the defined function.

OR

9 Describe about default arguments and variable length arguments with suitable programs.

[UNIT - V]

10 Explain how to implement inheritance in python with example.

OR

11 Explain about the available operating system interface through standard library.
