SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

MCA I Year II Semester Regular & Supplementary Examinations June/July-2025
PYTHON

Time: 3 Hours   **Max. Marks: 60**

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-1

1. a) Describe various features of a python.
b) Explain in brief about the application of python. [12 Marks]

OR

2. a) Describe the need of python.
b) List out various applications of python. [12 Marks]

UNIT-2

3. Compare and explain various data structures in python with examples. [12 Marks]

OR

4. Classify various slicing operations on a data structure [12 Marks]

UNIT-3

5. How do we access parent members in the child class? Explain with an example. [12 Marks]

OR

6. a) How a class and an object can can create in python.
b) Create a Student class and initialize it with name and roll number. Design
methods for i) Display to display all the information of the student.
ii) setAge to set the age of the student.
iii) setMarks to assign marks to the student. [12 Marks]

7. a) How do we convert matrix to data frame in R? Explain with example.
b) How do we convert data frame into a matrix? Explain with example [12 Marks]

OR

8. Develop a complicated data object and discuss viewing in that object. [12 Marks]

UNIT-5

9. Choose the following data2
> data2 [12 Marks]

OR

10. Explain different ways to create several graphs in one window.
Prepared by:
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Assistant Professor/ MCA [12 Marks]