

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 $5 \times 12 = 60$ Marks)

UNIT-1

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

OR

2. Develop a python program to demonstrate break and continue statements. [12 Marks]

UNIT-2

3. a) How can we create and access the tuple in python.
- b) Identify various methods performed on tuple. [12 Marks]

OR

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

UNIT-3

5. Discuss object oriented programming in python with creation of class and object. [12 Marks]

OR

6. a) Illustrate class inheritance in Python with an example
- b) Write a python program to find the area of a cone and circle using inheritance. [12 Marks]

UNIT-4

7. Illustrate various Mathematical Operations available in R Language. With example. [12 Marks]

OR

8. 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]

UNIT-5

9. Choose the following data2

> data2 [12 Marks]

OR

10. Identify and explain various types of Graphical Data Analysis. [12 Marks]