

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 input -output in python with example.
- b) Explain indentation with example. [12 Marks]

OR

2. a) Explain various looping statements in python.
- b) Develop a python program to display numbers up to given number. [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. a) How can we create and access the list in python.
- b) Identify various methods to perform on list. [12 Marks]

UNIT-3

5. a) Explain encapsulation in python with an example.
- b) What is init method in python? Explain with example. [12 Marks]

OR

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

UNIT-4

7. a) Differentiate between Vector, List, Matrix, and Data frame.
b) What is a vector in R? Explain different ways to create a vector. [12 Marks]

OR

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

UNIT-5

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

OR

10. a) Explain the importance of bar charts with examples .
b) Discuss Line charts using numeric data. [12 Marks]