

O.P.Code: 24mca109	Regulation 2021	H.T.No.										
--------------------	-----------------	---------	--	--	--	--	--	--	--	--	--	--

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) Demonstrate for and while statements in python with example. [6M]
- b) Build a python program to check given number is positive or negative or zero. [6M] [12 Marks]

OR

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

UNIT-2

3. a) What is a function? Explain how we can create a function. [6M]
- b) Explain different ways to pass arguments in a function. With example [6M] [12 Marks]

OR

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

UNIT-3

5. a) Explain encapsulation in python with an example. [6M]
- b) What is init method in python? Explain with example. [6M] [12 Marks]

OR

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

UNIT-4

7. a) Identify different ways to select and display parts of a Vector Object. [7M]
- b) How can we rearrange the items in a vector? [5M] [12 Marks]

OR

8. a) What is R? List the features and applications of R. [6M]
- b) Explain the advantages and disadvantages of R. [6M] [12 Marks]

UNIT-5

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

OR

10. Explain different ways to create several graphs in one window. [12M]

Prepared by: [12 Marks]