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) Choose various operators of Arithmetic and Comparison.
b) Design a python program to demonstrate logical operator. [12 Marks]

OR

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

UNIT-2

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

OR

4. Distinguish various types of arguments with example program in python . [12 Marks]

UNIT-3

5. a) What is an Error? Explain types of errors.
b) Compare and explain various built -in exception in python. [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. a) List the functions for reading data into R.

b) List the functions for writing data to files in R. [12 Marks]

OR

8. a) Identify different ways to select and display parts of a Vector Object.

b) How can we rearrange the items in a vector? [12 Marks]

UNIT-5

9. Explain different ways to copy graphics to other applications. [12 Marks]

OR

10. a) Identify and explain various t -test commands in r.

b) Discuss Two -Sample t -Test with Unequal and Equal Variance. [12 Marks]