

**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) Explain various looping statements in python.
- b) Develop a python program to display numbers up to given number. [12 Marks]

**OR**

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

**UNIT-2**

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

**OR**

4. Differentiate and explain local and global variable with an example python program. [12 Marks]

**UNIT-3**

5. a) Discuss how we can raise an exception.
- b) Write a simple program which illustrates Handling Exceptions. [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) What are the various Command Packages in R?  
b) How to Get Extra Packages of R Commands ? [12 Marks]

**UNIT-5**

9. a) Categorize Statistic commands that produce a Single Value as a Summary .  
b) List out Summary of Commands to Add Names to Rows and Columns of Data Objects [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]