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. Compare and explain the following operators with an example
i) Assignment ii) Membership iii) Identify [12M] [12 Marks]

OR

2. a) Choose various operators of Arithmetic and Comparison. [6M]
b) Design a python program to demonstrate logical operator. [6M] [12 Marks]

UNIT-2

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

OR

4. 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]

UNIT-3

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

OR

6. a) What is an Error? Explain types of errors. [6M]
b) Compare and explain various built -in exception in python. [6M] [12 Marks]

UNIT-4

7. Demonstrate the Help Command in R Language. [12M] [12 Marks]

OR

8. a) How do we convert matrix to data frame in R? Explain with example. [3M]
b) How do we convert data frame into a matrix? Explain with example [9M] [12 Marks]

UNIT-5

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

OR

10. a) Why we use Wilcoxon U -Test? Identify the commands in it. [6M]
b) Discuss Two -Sample and One -Sample in U -Test. [6M] [12 Marks]