

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 the need of python.
- b) List out various applications of python. [12 Marks]

OR

2. Compare and explain the following operators with an example
- i) Assignment ii) Membership iii) Identify [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. 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) 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]

7. a) What are the various Command Packages in R?
b) How to Get Extra Packages of R Commands ? [12 Marks]

OR

8. a) List the functions for reading data into R.
b) List the functions for writing data to files in R. [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) Why we use Wilcoxon U -Test? Identify the commands in it.
b) Discuss Two -Sample and One -Sample in U -Test. [12 Marks]