

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 various features of a python.
- b) Explain in brief about the application of python. [6 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. [6 Marks]

UNIT-2

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

OR

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

UNIT-3

5. a) Discuss how we can raise an exception.
- b) Write a simple program which illustrates Handling Exceptions. [6 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. [6 Marks]

UNIT-4

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

OR

8. Develop a complicated data object and discuss viewing in that object. [12 Marks]

UNIT-5

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

OR

10. a) Describe various commands of Cumulative measures in R .
b) Calculate the cumulative values for the following sample data
a <- c(1:9,4,2,4,5:2) [6 Marks]