

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. List and explain various data types in python. With example. [12M]

OR

2. a) Explain various looping statements in python. [6M]
 b) Develop a python program to display numbers up to given number. [6M]

UNIT-2

3. a) How can we create and access the set in python. [6M]
 b) Identify various methods to perform on set. [6M]

OR

4. a) How can we create and access the tuple in python. [6M]
 b) Identify various methods performed on tuple. [6M]

UNIT-3

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

OR

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

UNIT-4

7. a) Identify different ways to select and display parts of a Vector Object. [7M]
 b) How can we rearrange the items in a vector? [5M]

OR

8. a) Differentiate between Vector, List, Matrix, and Data frame. [4M]

b) What is a vector in R? Explain different ways to create a vector.

[8M]

UNIT-5

9. a) Categorize Statistic commands that produce a Single Value as a Summary .

[6M]

b) List out Summary of Commands to Add Names to Rows and Columns of Data

Objects

[6M]

OR

10. a) Describe various commands of Cumulative measures in R .

[6M]

b) Calculate the cumulative values for the following sample data

`a <- c(1:9,4,2,4,5:2)`

[6M]