

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) Demonstrate for and while statements in python with example.
- b) Build a python program to check given number is positive or negative or zero. [12 Marks]

OR

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

UNIT-2

3. a) How can we create and access the list in python.
- b) Identify various methods to perform on list. [12 Marks]

OR

4. a) How can we create and access the tuple in python.
- b) Identify various methods performed on tuple. [12 Marks]

UNIT-3

5. Discuss object oriented programming in python with creation of class and object. [12 Marks]

OR

6. How does inheritance work in python? Explain it with an example. [12 Marks]

UNIT-4

7. a) What is R? List the features and applications of R.
b) Explain the advantages and disadvantages of R. [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. Choose the following data2
> data2 [12 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)` [12 Marks]