

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) Choose various operators of Arithmetic and Comparison.
- b) Design a python program to demonstrate logical operator. [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. Differentiate and explain local and global variable with an example python program. [12 Marks]

OR

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

UNIT-3

5. Differentiate error and exception with an example program. [12 Marks]

OR

6. How do we access parent members in the child class? Explain with an example. [12 Marks]

UNIT-4

7. a) What are the various Command Packages in R?
- b) How to Get Extra Packages of R Commands ? [6 Marks]

OR

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

UNIT-5

9. a) Differentiate Plots and Charts in the Graphical Analysis.
b) Draw a pie chart for the following data [6 Marks]

OR

10. a) Identify and explain various t -test commands in r.
b) Discuss Two -Sample t -Test with Unequal and Equal Variance. [6 Marks]