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 x 12 = 60 Marks)

UNIT-1

1. a) Describe input -output in python with example.
b) Explain indentation with example. [7 Marks]

OR

2. Develop a python program to demonstrate break and continue statements. [12 Marks]

UNIT-2

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

OR

4. a) Illustrate the fruitful functions in python with example.
b) Discuss about Anonymous functions in python with an example. [6 Marks]

UNIT-3

5. a) Discuss in detail about polymorphism in python.
b) Explain method overriding in python with an example program. [6 Marks]

OR

6. a) How a class and an object can can create in python.
b) Create a Student class and initialize it with name and roll number. Design
methods for i) Display to display all the information of the student.
ii) setAge to set the age of the student.
iii) setMarks to assign marks to the student. [4 Marks]

UNIT-4

7. Demonstrate the Help Command in R Language. [12 Marks]

OR

8. a) List the functions for reading data into R.

b) List the functions for writing data to files in R. [6 Marks]

UNIT-5

9. a) Explain the importance of bar charts with examples .

b) Discuss Line charts using numeric data. [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]