

**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. [6M]  
 b) Explain in brief about the application of python. [6M]

**OR**

2. a) Explain various conditional statements in python. [6M]  
 b) Develop a python program to find largest of two numbers. [6M]

## UNIT-2

3. Distinguish various types of arguments with example program in python . [12M]

**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) How a class and an object can be created in python. [4M]  
 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. [8M]

**OR**

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

## UNIT-4

7. 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]

**OR**

8. a) Calculate Cumulative Sum of a Numeric Object in R Programming [4M]  
b) Construct a list data object with an example in R. [8M]

**UNIT-5**

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

**OR**

10. a) Explain the importance of bar charts with examples . [6M]  
b) Discuss Line charts using numeric data. [6M]