

**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) Explain various conditional statements in python.
- b) Develop a python program to find largest of two numbers. [12 Marks]

**OR**

2. a) Describe input -output in python with example.
- b) Explain indentation with example. [12 Marks]

**UNIT-2**

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

**OR**

4. a) Illustrate the fruitful functions in python with example.
- b) Discuss about Anonymous functions in python with an example. [12 Marks]

**UNIT-3**

5. a) How a class and an object 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. [12 Marks]

**OR**

6. a) Explain encapsulation in python with an example.  
b) What is init method in python? Explain with example. [12 Marks]

**UNIT-4**

7. a) Identify different ways to select and display parts of a Vector Object.  
b) How can we rearrange the items in a vector? [12 Marks]

**OR**

8. a) What is R? List the features and applications of R.  
b) Explain the advantages and disadvantages of R. [12 Marks]

**UNIT-5**

9. 5 7 5 3 2 6 8 5 6 9 4 5 7 3 4

Find the following by using summary statistics commands

- i) Average of the sample
- ii) Largest value in the sample
- iii) Smallest value in the sample
- iv) How many items are in the sample
- v) Look at a different data sample [12 Marks]

**OR**

10. Explain different ways to create several graphs in one window.

Prepared by:

Mr. J. S. ANANDA KUMAR

Assistant Professor/ MCA [12 Marks]