

**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 looping statements in python.
- b) Develop a python program to display numbers up to given number. [12 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. [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. Illustrate modules in python with an example [12 Marks]

**UNIT-3**

5. a) Discuss in detail about polymorphism in python.
- b) Explain method overriding in python with an example program. [12 Marks]

**OR**

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

**UNIT-4**

7. a) What are the various Command Packages in R?  
b) How to Get Extra Packages of R Commands ? [12 Marks]

**OR**

8. Illustrate various Mathematical Operations available in R Language. With example. [12 Marks]

**UNIT-5**

9. Identify and explain various types of Graphical Data Analysis. [12 Marks]

**OR**

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

Prepared by:

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Assistant Professor/ MCA [12 Marks]