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**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 the need of python.
- b) List out various applications of python. [12 Marks]

**OR**

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

**UNIT-2**

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

**OR**

- 4. Compare and explain various data structures in python with examples. [12 Marks]

**UNIT-3**

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

**OR**

- 6. a) Illustrate class inheritance in Python with an example
- b) Write a python program to find the area of a cone and circle using inheritance. [12 Marks]

**UNIT-4**

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

<b>UNIT-5</b>
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9. Choose the following data2

> data2 [12 Marks]

**OR**

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