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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) 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]

**OR**

- 2. a) Explain various looping statements in python.
- b) Develop a python program to display numbers up to given number. [12 Marks]

**UNIT-2**

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

**OR**

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

**UNIT-3**

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

**OR**

- 6. How does inheritance work in python? Explain it with an example. [12 Marks]

**UNIT-4**

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

**OR**

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

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| <b>UNIT-5</b> |
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9. Choose the following data2  
> data2 [12 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) [12 Marks]