

O.P.Code: 24mca109	Regulation 2021	H.T.No.												
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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 input -output in python with example.
- b) Explain indentation with example. [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 tuple in python.
- b) Identify various methods performed on tuple. [12 Marks]

**OR**

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

**UNIT-3**

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

**OR**

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

**UNIT-4**

7. a) Differentiate between Vector, List, Matrix, and Data frame.  
b) What is a vector in R? Explain different ways to create a vector. [12 Marks]

**OR**

8. Develop a complicated data object and discuss viewing in that object. [12 Marks]

<b>UNIT-5</b>
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9. Identify and explain various types of Graphical Data Analysis. [12 Marks]

**OR**

10. a) Explain the importance of bar charts with examples .  
b) Discuss Line charts using numeric data. [12 Marks]