

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  $5 \times 12 = 60$  Marks)

**UNIT-1**

1. List and explain various data types in python. With example. [12M]

**OR**

2. a) Describe the need of python. [4M]  
 b) List out various applications of python. [8M]

**UNIT-2**

3. a) Illustrate the fruitful functions in python with example. [6M]  
 b) Discuss about Anonymous functions in python with an example. [6M]

**OR**

4. a) How can we create and access the list in python. [6M]  
 b) Identify various methods to perform on list. [6M]

**UNIT-3**

5. a) Discuss in detail about polymorphism in python. [6M]  
 b) Explain method overriding in python with an example program. [6M]

**OR**

6. a) Discuss how we can raise an exception. [6M]  
 b) Write a simple program which illustrates Handling Exceptions. [6M]

**UNIT-4**

7. a) Calculate Cumulative Sum of a Numeric Object in R Programming [4M]  
 b) Construct a list data object with an example in R. [8M]

**OR**

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

**UNIT-5**

9. Identify and explain various types of Graphical Data Analysis.

[12M]

**OR**

10. a) Explain the importance of bar charts with examples .

[6M]

b) Discuss Line charts using numeric data.

[6M]