

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

**OR**

2. a) Explain various looping statements in python. [6M]  
b) Develop a python program to display numbers up to given number. [6M]

### UNIT-2

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

**OR**

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

### UNIT-3

5. a) What is an Error? Explain types of errors. [6M]  
b) Compare and explain various built-in exception in python. [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) Identify different ways to select and display parts of a Vector Object. [7M]  
b) How can we rearrange the items in a vector? [5M]

**OR**

8. a) Differentiate between Vector, List, Matrix, and Data frame. [4M]

b) What is a vector in R? Explain different ways to create a vector.

[8M]

**UNIT-5**

9. a) Categorize Statistic commands that produce a Single Value as a Summary .

[6M]

b) List out Summary of Commands to Add Names to Rows and Columns of Data Objects

[6M]

**OR**

10. a) Describe various commands of Cumulative measures in R .

[6M]

b) Calculate the cumulative values for the following sample data

a <- c(1:9,4,2,4,5:2)

[6M]