

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

OR

4. Classify various slicing operations on a data structure [12 Marks]

UNIT-3

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

OR

6. a) How a class and an object can be created in python.
- b) Create a Student class and initialize it with name and roll number. Design methods for i) Display to display all the information of the student.
- ii) setAge to set the age of the student.
- iii) setMarks to assign marks to the student. [12 Marks]

7. a) List the functions for reading data into R.
b) List the functions for writing data to files in R. [12 Marks]

OR

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

UNIT-5

9. a) Categorize Statistic commands that produce a Single Value as a Summary .
b) List out Summary of Commands to Add Names to Rows and Columns of Data Objects [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]