O.P.Code: 24mca109	Regulation 2021	H.T.No.										

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 various features of a python.	CO1	L1	6M
	b) Explain in brief about the application of python.	CO1	L2	6M
	OR			
2	a) Explain various looping statements in python.	CO1	L2	6M
	b) Develop a python program to display numbers up to given number. Course Code 20MC9125 R20	CO1	L6	6M

UNIT-2

3 a) Illustrate the fruitful functions in python with example. [L3][CO2] [6M]
b) Discuss about Anonymous functions in python with an example. [L2][CO2] [6M] 9 Differentiate and explain local and global variable with an example python program. [L4][CO2] [12M] 10 Illustrate modules in python with an example [L3][CO2] [12M]
Course Code: 20MC9125 R20

OR

4 a) How can we create and access the list in python. [L2][CO2] [6M]
b) Identify various methods to perform on list. [L3][CO2] [6M] 2 Compare and explain various data structures in python with examples. [L5][CO2] [12M]

UNIT-3

5 a) Explain encapsulation in python with an example. [L2][CO3] [6M]
b) What is init method in python? Explain with example. [L2][CO3] [6M] 6 How does inheritance work in python? Explain it with an example. [L2][CO3] [12M]

OR

6 a) What is an Error? Explain types of errors. [L2][CO3] [6M]
b) Compare and explain various built -in exception in python. [L4][CO3] [6M] 9 Differentiate error and exception with an example program. [L4][CO3] [12M]

UNIT-4

7 INTRODUCING R &WORKING WITH OBJECTS

OR

8	a) List the functions for reading data into R.	CO3	L1	6M
	b) List the functions for writing data to files in R. 5 Illustrate various Mathematical Operations available in R Language. With example.	CO3	L2	6M

UNIT-5

a) Explain the importance of bar charts with examples . [L5][CO5] [6M]
b) Discuss Line charts using numeric data. [L2][CO5] [6M]

OR

10 a) Identify and explain various t -test commands in r. [L3][CO5] [6M]
b) Discuss Two -Sample t -Test with Unequal and Equal Variance. [L2][CO5] [6M]