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) 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
	OR			
2	a) Choose various operators of Arithmetic and Comparison.	CO1	L5	6M
	b) Design a python program to demonstrate logical operator.	CO1	L3	6M

UNIT-2

3 a) What is a function? Explain how we can create a function. [L1][CO2] [6M]
b) Explain different ways to pass arguments in a function. With example [L2][CO2] [6M]
7 Distinguish various types of arguments with example program in python . [L5][CO2] [12M]

OR

4 a) How can we create and access the tuple in python. [L2][CO2] [6M]
b) Identify various methods performed on tuple. [L3][CO2] [6M] 4 Classify various slicing operations on a data structure [L4][CO2] [12M]

UNIT-3

5 OOP IN PYTHON & ERROR AND EXCEPTIONS

OR

6 a) Discuss how we can raise an exception. [L2][CO3] [6M]
b) Write a simple program which illustrates Handling Exceptions. [L4][CO3] [6M] Course Code: 20MC9125 R20

UNIT-4

7	a) How do we convert matrix to data frame in R? Explain with example.	CO3	L3	3M
	b) How do we convert data frame into a matrix? Explain with example 10 Develop a complicated data object and discuss viewing in that object. Course Code: 20MC9125 R20	CO3	L3	9M
	OR			
8	a) What are the various Command Packages in R? [L1][CO3] [6M]			
	b) How to Get Extra Packages of R Commands ?	CO3	L2	6M

UNIT-5

a) Describe various commands of Cumulative measures in R . [L2][CO5] [6M]
b) Calculate the cumulative values for the following sample data a <- c(1:9,4,2,4,5:2) [L3][CO5] [6M]

OR

10 a) Why we use Wilcoxon U -Test? Identify the commands in it. [L4][CO5] [6M]
b) Discuss Two -Sample and One -Sample in U -Test. [L2][CO5] [6M] 4 Choose the following data2 > data2 3 5 7 5 3 2 6 8 5 6 9 4 5 7 3 4 Find the following by using summary statistics commands i) Average of the sample ii) Largest value in the sample iii) Smallest value in the sample iv) How many items are in the sample v) Look at a different data sample [L5][CO5] [12M]