

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

- a) Describe various features of a python. CO1 L1 6M
 b) Explain in brief about the application of python. CO1 L2 6M

OR

- a) Describe the need of python. CO1 L2 4M
 b) List out various applications of python. 3 List and explain various data types in python. CO1 L1 8M
 With example. 4 Compare and explain the following operators with an example i)
 Assignment ii) Membership iii) Identify

UNIT-2

- 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

- a) How can we create and access the set in python. [L2][CO2] [6M]
 b) Identify various methods to perform on set. [L3][CO2] [6M]

UNIT-3

- 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

OR

- a) Discuss in detail about polymorphism in python. [L2][CO3] [6M]
 b) Explain method overriding in python with an example program. [L4][CO3] [6M]

UNIT-4

- a) Differentiate between Vector, List, Matrix, and Data frame. CO3 L4 4M
 b) What is a vector in R? Explain different ways to create a vector. CO3 L2 8M

OR

- 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 CO3 L2 6M
 Operations available in R Language. With example.

UNIT-5

- 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]

OR

- 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]