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) Choose various operators of Arithmetic and Comparison. [6M]
b) Design a python program to demonstrate logical operator. [6M] [12 Marks]

OR

2. a) Describe various features of a python. [6M]
b) Explain in brief about the application of python. [6M] [12 Marks]

UNIT-2

3. a) Illustrate the fruitful functions in python with example. [6M]
b) Discuss about Anonymous functions in python with an example. [6M] [12 Marks]

OR

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

UNIT-3

5. a) What is an Error? Explain types of errors. [6M]
b) Compare and explain various built -in exception in python. [6M] [12 Marks]

OR

6. a) How a class and an object can can create in python. [4M]
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. [8M] [12 Marks]

UNIT-4

7. a) How do we convert matrix to data frame in R? Explain with example. [3M]
b) How do we convert data frame into a matrix? Explain with example [9M] [12 Marks]

OR

8. a) Calculate Cumulative Sum of a Numeric Object in R Programming [4M]

b) Construct a list data object with an example in R. [8M] [12 Marks]

UNIT-5

9. Explain different ways to copy graphics to other applications. [12M] [12 Marks]

OR

10. a) Why we use Wilcoxon U -Test? Identify the commands in it. [6M]

b) Discuss Two -Sample and One -Sample in U -Test. [6M] [12 Marks]