

I B. Tech II Semester Regular/Supplementary Examinations, July/August-2023**PROBLEM SOLVING USING PYTHON**

(Common to CSE-CS&T, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security)

Time: 3 hours

Max. Marks: 70

*Answer any five Questions one Question from Each Unit
All Questions Carry Equal Marks*

UNIT-I

- 1 a) With neat sketch Explain Program Development Cycle in Python. [7M]
b) Demonstrate the various expressions in python with suitable examples. [7M]

(OR)

- 2 a) Write a python program to check whether the number is palindrome or not. [7M]
b) List various types of operators in Python and write any 4 types of operators. [7M]

UNIT-II

- 3 a) Explain in detail about looping statements with suitable examples. [7M]
b) Write a python program to count the number of vowels in a string provided by the user. [7M]

(OR)

- 4 a) Demonstrate the string and its methods with suitable example. [7M]
b) Write a python program to find ASCII value of a character. [7M]

UNIT-III

- 5 a) Discuss the Python List Methods with examples? [7M]
b) Write a python program to reverse a string with using recursion function. [7M]

(OR)

- 6 a) What is a module? How many ways to import module in python? [7M]
b) Write a python program to Find the area and perimeter of a circle using functions. [7M]

UNIT-IV

- 7 a) Explain about reading and writing files in python with examples. [7M]
b) Write a python program to find the one's complement of binary number Create using file. [7M]

(OR)

- 8 a) Describe how an object is passed as parameter to a method with an example. [7M]
b) Explain the different access modes of the files with an example. [7M]

UNIT-V

- 9 a) What is an Exception? Explain types of exceptions and give an example. [7M]
b) Difference between Raising and User defined exceptions in python. [7M]

(OR)

- 10 a) Generalize a case study on the getting the students mark statements and analysis with exception handling. [7M]
b) Describe in detail about user defined Exceptions. [7M]

