I B. Tech II Semester Supplementary Examinations, January/February - 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)	Write about Python environment variables.	[3M]
	b)	Explain the modules and methods that help you to parse command-line options and arguments.	[4M]
	c)	Write a Python program to demonstrate the usage of Logical, Membership and Identity operators.	[7M]

(OR)

2	a)	With neat flow diagrams, explain the decision making statements available in Python programming.	[7M]
	b)	Write a python program to calculate the total amount to be paid by user after reducing the 10% discount on purchases more than 1000 rupees.	[7M]

UNIT - II

3	a)	Write a Python program that prints all Prime numbers from 1 to 100 except even primes.	[7M]
	b)	Explain the execution behavior of 'for' loop statement supported by Python programming with an example program.	[7M]

(OR)

4	a)	Explain various String handling functions provided by Python programming.	[7M]
	b)	Write a Python program to read a Text file line by line and store it into an Array.	[7M]

UNIT - III

5	a)	Explain the syntax to create Lists in Python? And write a Python program to print a specified list after removing the 0th, 4th and 5th elements.	[7M]
	b)	Describe various Built-in Dictionary methods available in Python Programming.	[7M]

(OR)

6	a)	Explain the concept of Anonymous functions in Python with an example program.	[7M]
	b)	Write about the following features in Python programming i)Modules ii) globals() and locals() Functions iii)Packages	[7M]

UNIT - IV

7	a)	Explain about read() and write() methods in Python programming.	[7M]
	b)	Explain the following i)Python Garbage collection ii)Data hiding	[7M]

(OR)

8	a)	Explain the steps for reading and writing config files in Python.	[7M]
	b)	Discuss the Python's Language level support for achieving Class Inheritance.	[7M]

|"|'|||||'|"'|||'|

UNIT - V

9   a)   List and explain any 12 Standard Exceptions available in Python.   [7M]

   b)   How to pass an argument to an exception in python? Explain with a sample python code.   [7M]

(OR)

10   a)   Write a Python GUI program to create three single line text-box to accept a value from the user using tkinter module.   [7M]

   b)   Write about block-based visual programming language and explain its features.   [7M]

*****