VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY (VSSUT), ODISHA Even Mid Semester Examination for Academic Session 2024-25

COURSE NAME:B.Tech

SEMESTER: 4th

BRANCH NAME: CSE/IT SUBJECT NAME: Programming in Python

Answer All Questions.

FULL MARKS: 30

TIME: 90 Minutes

		The figures in the right hand margin indicate Marks. Symbols carry usual meaning.	
Q1.		Answer all Questions.	[2 × 3]
	a)	Write the output a. print(20>10 or "a" +1>1) b. for i in range(-5):	- CO1
	b)	print(i) Differentiate set and dictionary? Write an instruction to add same value to all the keys of a dictionary.	- CO2
	c)	What is lambda function? Explain with suitable example.	- CO3
Q2.			[8]
	a)	Define python? List the standard data types of python language and explain various properties of those data types with example.	- CO1
	b)	Write a program to display an unsorted array and find the kth largest element from that array.	
	a)	OR What is module? Explain the benefits of module. Explain the process of creating module and include in another program. Provide with example to support your answer.	- CO1
	b)	Find the maximum sum of a contiguous subarray of size 'm' in a given array of integers of size 'n'. (where, m <n)< td=""><td></td></n)<>	
Q3.			[8]
	a)	Write a python function as leap () to check whether input year is a leap year or not. Also print the massage.	- CO2
	b)	Write a program to remove duplicate elements from a list. How do you convert a list into a tuple? Provide an example	
		OR	
	a) b)	Write a program to print the first 10 numbers of the Fibonacci series. Write a Python program to count the frequency of words in a given string using a dictionary.	- CO2
Q4.			[8]
	a)	Write a program to generates a random number within a given range using function.	- CO3
	b)	Write a program to Find the longest word in a given sentence using function. OR	
	a)	A 4-digit integer is entered through the keyboard. Write a function to Calculate the sum of digits of the 4-digit number using recursion and without using recursion.	- CO3
	b)	Write a program to Merge two sorted lists into a single sorted list using user define function.	