Reg. No.:

Name :



TERM END EXAMINATIONS (TEE) – December 2021- January 2022

Programme	:	B.TechCSE	Semester	••	Fall 2021-22
Course Name		Introduction to Problem Solving and Programming	Course Code	:	CSE1021
Faculty Name		Divya Thakur	Slot / Class No	••	D11+D12+D13/0096
Time	1:	1½ hours	Max. Marks	:	50

Answer ALL the Questions

Q. No.		Question Description		Marks
1	(a)	PART - A (30 Marks) Write the algorithm, pseudocode and draw the flowchart for the following:)	10
		following: a. To convert temperature from Fahrenheit to Celsius b. To solve the quadratic equation. OR		
	(b)		Γ	10
2	(a)	Differentiate between lists, tuples and dictionaries. Give an example for their usage.		10
	(b)	OR Explain the purpose of loop structure in a programming language. Describe the syntax and semantics of any two loop structures provided by Python.		10
3	(a)	Program to multiply two matrices using nested loops.		7
	(b)	To find factorial of a given number	S	3

	(a)	What do you understand by time trade off? Explain with all its type.	5
	(b)	Explain all the methods for Generating Pseudo-random numbers with syntax and appropriate example.	5
		PART - B (20 Marks)	
4		What do you understand by function? Write program using function to tell user if he/she is able to vote or not. (Consider minimum age of voting to be 18.)	10
5		 Write the following python programs. a. To find whether a given number is Armstrong number or Not. b. Finding the Kth smallest element in array 	10

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