SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)
Coimbatore – 641 035.
B.E / B.Tech – Internal Assessment Exam- II
Academic Year 2022-2023 (ODD)
First Semester (Regulation R2019)
19CST101 – PROGRAMMING FOR PROBLEM SOLVING
(Common to All Branches)

A

TIME: 1.5 HOURS   **MAXIMUM MARKS: 50**

		ANSWER ALL QUESTIONS		
		PART – A (5*2=10 MARKS)		
1.		Define User-defined Data types?	CO2	Rem
2.		Summarize the functions of relational operators?	CO2	Und
3.		Construct a Function to find whether the given integer is odd or even?	CO2	App
4.		Define Arrays? And List it's Types.	CO3	Rem
5.		What is meant by Sorting? And brief the Technique of Merge Sort?	CO3	Rem
		PART – B (2*13=26 Marks, 1*14 = 14 Marks)		
6.	(a) i	Define Operators? And Explain its types with Example. (8)	CO2	Und
	ii	Construct a C-Program to demonstrate a working of arithmetic and relational operators? (5)	CO2	App
		OR		
	(b) i	Explain in detail about the Looping Statements with Example. (8)	CO2	Und
	ii	Write a C-Program to generate a Fibonacci series (5)	CO2	Cre
7.	(a)i	Explain the method to declare and initializing an Array with its types along with an example for each? (6)	CO3	Und
	ii	Write a C- Program to print all lower-case alphabets using while loop? (7)	CO3	App
		OR		
	(b)i	Explain the Searching techniques with Example. (7)	CO3	Und
	ii	Write a C-Program to implement any one sorting technique. (6)	CO3	Eva
8.	(a)	Explain in Detail about various String Operations? (14)	CO3	Und
		OR		
	(b)	Write a C-Program for matrix Multiplication. (14)	CO3	App

Und – Understand, Ana – Analysis, Rem – Remember, App – Apply, Cre - Create

Faculty in charge   **Verified by**   **HoD**