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G H Raisoni College of Engineering and Management, Pune

(An Empowered Autonomous Institute affiliated to Savitribai Phule, Pune University, NAAC Accredited "A+" Grade)

First Year B. Tech.

(TERM-I)

CAE II Winter 2025 (2023 Pattern)

Programming for Problem Solving (23USL1102)

(Time: - 01 Hour)

(Max. Marks:20)

Instructions to the students:

- i) All questions are compulsory. ii) Neat diagrams must be drawn wherever necessary.
iii) Figures to the right indicate full marks. iv) Use of scientific calculator is allowed
v) Assume suitable data, if necessary.

Q.No	Question	Marks	CO	BL
Q.1	a) Explain the terms Call by value and Call by reference with example.	[05]	CO3	L2
	OR			
	b) Describe the working process of a recursive function and give an example scenario where recursion is beneficial.	[05]	CO3	L2
Q1	c) Write programs to find average of two numbers with and without parameterized function.	[05]	CO3	L3
	OR			
	d) Write a C program to display multiplication table of a given number using user defined function.	[05]	CO3	L3
Q2	a) Explain and compare one dimensional and two dimensional arrays with suitable example.	[05]	CO4	L2
	OR			
	b) Explain Pointers in C. Describe reference operator and dereference operator.	[05]	CO4	L2
Q2	c) Demonstrate the use of array and write a program to print first five elements of the array.	[05]	CO4	L3
	OR			
	d) Write a C program to add two numbers using pointers	[05]	CO4	L3

BL - Bloom's Taxonomy Levels (1- Remember, 2- Understand, 3 - Apply, 4 - Analyze, 5 - Evaluate 6 - Create