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G H Raisoni College of Engineering and Management, Pune.
 (An Autonomous Institution affiliated to Savitribai Phule ,Pune University)
FY B.TECH/ (Branch: All) (TERM: I)
ESE WINTER 2024 (2023Pattern)
Programming for Problem Solving(23UESL1102)

[Time: 2:5Hours]

[Max. Marks 60]

Instructions to the candidates:

- 1) *All questions compulsory.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*
- 5) *Other Instructions, if any.*

Q. No.	Sub Question	Marks	CO	BL
1	a) Write short note on problem solving through computers	[3]	CO1	L2
	b) Explain Pseudo-code with example	[3]	CO1	L2
	c) Write an algorithm for finding average marks by students in 3 subjects	[6]	CO1	L3
2	a) Explain the term operator and types of operator.	[3]	CO1	L2
	b) Describe any 3 types of Expressions	[3]	CO1	L2
	c) Explain the concept of Identifiers in programming. What are the naming conventions and rule s for identifiers.	[6]	CO2	L2
3	a) Explain Switch case statement in C with proper syntax and flowchart.	[6]	CO2	L2
	OR			
	b) List out different decision making statement in c and explain each with example.	[6]	CO2	L2
4	c) Write a C program to decide whether given year is a leap year or not.	[6]	CO3	L3
	a) Write a C program for finding the GCD (Greatest Common Divisor) among two numbers using function.	[6]	CO3	L3
	b) Discuss in detail about local variable and global variable with respect to their scope and extent	[6]	CO3	L2
OR				
5	c) Describe and Differentiate between built-in function and user defined function.	[6]	CO3	L2
	a) Define array and Explain different types of array with suitable example.	[6]	CO4	L1
	b) Define a Structure and Describe how to declare and initialize structure and its member with an example	[6]	CO4	L1