

G H Raisoni College of Engineering and Management, Pune
(An Autonomous Institution affiliated to Savitribai Phule, Pune University)

Department of First Year B. Tech.

Term II (2024-25)

CAE-I

Programming for Problem Solving (23UESL1102)

[Time: 01 Hour]

[Max. Marks-20]

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.*

<i>Q. No.</i>	<i>Sub Question</i>	<i>CO</i>	<i>Marks</i>	<i>BL</i>
1	a) Summarize the steps for problem solving using programming?	CO1	[05]	L2
	OR			
	b) Explain the different notation used in flowchart with one suitable example?	CO1	[05]	L2
	c) Write a pseudocode and draw a flowchart where multiple conditions are checked to categorize a person as either child (<13), teenager (>=13 but <20) or adult (>=20) based on age.	CO1	[05]	L3
	OR			
	d) Write an algorithm, Pseudocode and draw flowchart to calculate area and perimeter of a rectangle.	CO1	[05]	L3
2	a) Illustrate the types of Programming Languages.	CO1	[05]	L2
	OR			
	b) Illustrate different Data types in the C programming language.	CO1	[05]	L2
	c) Enlist arithmetic operators & Write a program that accepts the marks of 5 subjects and finds the sum and percentage marks obtained by the student.	CO1	[05]	L3
	OR			
	d) What are logical operators and how can they be applied in real-world programming scenarios? Give example.	CO1	[05]	L3

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