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**G H Raison 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 I Winter 2025 (2023 Pattern)

**Programming for Problem Solving (23UESL1102)**

(Max. Marks:20)

(Time: - 01 Hour)

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 |
|---------|--|-------|-----|----|
| Q1.(a)  | Explain types of problem with example  | [ 5 ] | CO1 | L2 |
| OR      |  |       |     |    |
| (b)     | Describe building blocks of algorithm.   | [ 5 ] | CO1 | L2 |
| Q2. (a) | Write an algorithm and draw a flowchart to find the summation Of all-natural number from 5 to 10.                                | [ 5 ] | CO1 | L3 |
| OR      |  |       |     |    |
| (b)     | Write a program that accepts the marks of 5 subjects and finds the sum and percentage marks obtained by the student.             | [ 5 ] | CO1 | L3 |
| Q 3.(a) | Explain any 5 tokens in C.   | [ 5 ] | CO1 | L2 |
| OR      |  |       |     |    |
| (b)     | Explain types of Operators in C with example.  | [ 5 ] | CO1 | L2 |
| Q 4.(a) | Write a program to find the greatest of three numbers using if else statement.<br>(Input entered by the user.)                   | [ 5 ] | CO2 | L3 |
| OR      |  |       |     |    |
| (b)     | Write a C program to check whether a person is eligible to vote or not using a simple if condition. (Input entered by the user.) | [ 5 ] | CO2 | L3 |

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