

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

**Department of First Year B. Tech.**

Term I (2024-25)

CAE-II

**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.

Q. No.	Sub Question	CO	Marks	BL
1	a) Demonstrate the Switch-Case statement with suitable C program	CO2	[5]	L1
	OR			
	b) List out different looping statements in C? Explain each with example.	CO2	[5]	L1
	c) Write a program to read marks of a student in percentage and declare class. ( $\geq 70$ : distinction, between 60 to 70 : first class, 50 to 60 : second class, and $< 50$ : fail)	CO2	[5]	L3
	OR			
	d) Write a program to print following pattern: 1 1 2 1 2 3 1 2 3 4	CO2	[5]	L3
2	a) Write a C program to reverse a given integer number using function.	CO3	[5]	L3
	OR			
	b) Write a C program to swap the values of two variables using a function.	CO3	[5]	L3
	c) Explain following terms: (i) Local and Global variables (ii) Actual and Formal arguments.	CO3	[5]	L2
	OR			
	d) Explain functions with parameters and without parameters with example.	CO3	[5]	L2

\*\*\*\*\* All the Best \*\*\*\*\*