G.R. No.		PAPER CODE	U124 - 383

March 2024 (INSEM) EXAM
F.Y.B. TECH. CESE (SEMESTER - II)
COURSE NAME: Programming And Problem Solving-II
COURSE CODE: SE12233
(PATTERN 2023)

Time: [40 min]   [Max. Marks: 20]

Instructions to candidates:
1) **Figures to the right indicate full marks.**
2) **Use of scientific calculator is allowed**
3) **Use suitable data wherever required**
4) **Solve any two sub questions from Question 1 and 2**

Question No.	Question Description	Marks	CO mapped	Blooms Taxonomy Level
Q.1	a) Can you explain the fundamental difference between C++ and Java in terms of their approach to memory management and platform independence? Provide examples to illustrate these distinctions.	[5]	1	Understanding
	b) Describe JVM (java virtual machine), JRE (java runtime Environment) and JDK (java development kit) in the context of java development with diagram.	[5]	1	Understanding
	c) Explain variable and types of variables.	[5]	1	Understanding
Q2	a) Develop a Java program that takes an array of 5 float elements and calculate their sum.	[5]	2	Apply
	b) Develop a java class named **Car** representing a car with instance variables for model, year and color. Implement a parameterizes constructor that initializes these variables. Ensure that the constructor validates the input values and provide default values if necessary.	[5]	2	Apply

	c) Using java programming ask the user for a number n and prints all the numbers from 1 to n.	[5]	2	Apply