G.R. No.		PAPER CODE	U124 - 3104

March 2024 (INSEM) EXAM
F.Y (Info.Tech.) (SEMESTER - II)
COURSE NAME: Programming & Problem Solving - II
COURSE CODE: IT12234
(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) What is difference between C++ and Java programming language?	[5]	CO1	2
	b) Explain the component of Java Virtual machine with its importance to make java as platform independent?	[5]	CO1	5
	c) Write simple Java Program for to generate Fibonacci Series and explain the various concepts and keyword used in it? (e.g. class, static, void etc.)	[5]	CO1	3
Q2	a) Create a class named Year that contains a data field that holds the number of days in a year. Include a get method that displays the number of days and a constructor that sets the number of days to 365. Create a subclass named LeapYear. LeapYear's constructor overrides Year's constructor and sets the number of days to 366. Write an application named Use Year that instantiates one object of each class and displays their data.	[5]	CO2	3
	b) Write a Program for handling the Divide by Zero exception? And explain the use of try, catch and throw?	[5]	CO2	3
	c) Explain the difference between Java Abstract Classes and Interfaces?	[5]	CO2	2

Note: [BT Level – 1. Remember 2. Understand 3. Apply 4. Analyze 5. Evaluate 6. Create]