Course Name: Programming In Java

Course Outcome
CO1- Understand differences between procedures oriented and object oriented approach.
CO2- Understand the relevance of Object Oriented Programming techniques.
CO3- Understand how to write, compile and execute a Java Program.
CO4 Understand the use of polymorphism and Inheritance.
CO5- Understand how to define user exceptions and its uses.
CO6- Understand what is a thread and Multithreading model.
CO7- Understand how to develop a GUI application

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Mid Term Examination, Odd Semester 2024-25
BCA, II Year, III Semester
BCAC 0023: PROGRAMMING IN JAVA

Time: 2 Hours   Maximum Marks: 30

Section – A

Attempt All Questions   3 X 5 = 15 Marks

No.	Detail of Question	Marks	CO	BL	KL
1	Explain the role of JDK, JRE and JVM in java programming language.	3	1	U	F
2	What are data types? Explain all the important data types available in Java. Also discuss the default values of data types in Java.	3	1	U	C
3	Explain the working of indexOf(), compareTo() and charAt() string handling functions in java.	3	2	R	F

4	What will be the output of following code segment? Also explain the justification of your answer.
	
	int a=10,b=3;
	double d = a/b;
	System.out.print(d);
		3	3	U	C

5	Write the following program using if else if ladder. Accept an hour from the user and output the following as indicated below. Include the last condition in the else section. (i) Hour greater than or equal to 0 and less than 12 Print "Good Morning" (ii) Hour greater than or equal to 12 and less than 18 Print "Good Afternoon" (iii) Hour greater than or equal to 18 and less than 24 Print "Good Evening" (iv) Any other input Print "Time is out of range"	3	1	A.	P

Section – B

Attempt All Questions   5 X 3 = 15 Marks

No.	Detail of Question	Marks	CO	BL	KL
6	Explain any five important features of Java programming language.	5	2	R	C
7	Write a program, in java for developing a grading system for a class of 5 students. The system should: 3. Allow the user to input marks for each student. 4. Calculate and print the average mark.	5 .	3	A	P

8	(c) Write a program to print following pattern: (2 Marks)
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	    **
	    ***
	    ****
	    *****
	
	(d) Write a program in Java to display all command line argument. (3 Marks)
		5	3	A	P