BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: BCA   SEMESTER : III
BRANCH: BCA   SESSION : MO/2024

SUBJECT: CN201 JAVA PROGRAMMING

TIME: 3 Hours   FULL MARKS: 50

INSTRUCTIONS:
1. The question paper contains 5 questions each of 10 marks and total 50 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Before attempting the question paper, be sure that you have got the correct question paper.
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

			CO	BL
Q.1(a)	Explain basic concepts of Object-Oriented Programming and its features.	[5]	2	1,2
Q.1(b)	Define Operator? Explain Different types of Operators available in Java.	[5]	2	2
Q.2(a)	What is the purpose of Exception Handling? Explain with suitable example try-throw-catch-finally statement.	[5]	3	2.3
Q.2(b)	Write a menu driven program using switch in Java to perform following: a) For input of 1, find the factors of the number b) For input of 3, generate the reverse of the number	[5]	4	4
Q.3(a)	Explain the concept of passing parameters to a method by value and by reference with examples.	[5]	3	3
Q.3(b)	Write a program in Java to take input of a sentence and then count the number of words and vowels.	[5]	4	3,4
Q.4(a)	Describe different forms of Inheritance with example.	[5]	3	3
Q.4(b)	What are the different member access controls? Define with proper examples.	[5]	2	2
Q.5(a)	Explain with neat diagram Applet life cycle.	[5]	2	2
Q.5(b)	Write a short note on byte streams and file streams.	[5]	3	2,3

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