

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

**CLASS: BCA  
BRANCH: BCA**

**SEMESTER: III  
SESSION: MO/2023**

**SUBJECT: CA205 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.
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		CO	BL
Q.1(a)	Explain basic concepts and benefits of Object-Oriented Programming	[5]	1 2
Q.1(b)	What is a Token? List the various types of tokens supported by Java?	[5]	1 2
Q.2(a)	List the eight basic data types used in Java. Give Examples.	[5]	2 2
Q.2(b)	Write a program in Java to take input through command line argument and do the following:  Generate the reverse of a given number.	[5]	2 4
Q.3(a)	Compare and contrast overloading and overriding methods.	[5]	3 3
Q.3(b)	Write a program in Java to compute and display the count of occurrence of digit in a number [ example. 4564 will compute occurrence of 4 is 2]	[5]	3 4
Q.4(a)	List out the types of Inheritance? Explain with suitable example?	[5]	4 3
Q.4(b)	Write a short note on Object class and Abstract class.	[5]	4 3
Q.5(a)	list and explain types of streams supported in Java.	[5]	5 2
Q.5(b)	What is the lifecycle of an applet? Explain with neat diagram.	[5]	5 3

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