

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE				
Regular/Supplementary Winter Examination – 2024				
Course: B. Tech Branch:Computer Engineering /Computer Science Engineering and Allied				
Semester: III		Subject Code & Name: BTCOC305B Object Oriented Programming in Java		
Max Marks: 60		Date:21/02/2025		Duration: 3 Hr.
Instructions to the Students: 1. Each question carries 12 marks. 2. Question No. 1 will be compulsory and include objective-type questions. 3. Candidates are required to attempt any four questions from Question No. 2 to Question No. 6. 4. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question. 5. Use of non-programmable scientific calculators is allowed. 6. Assume suitable data wherever necessary and mention it clearly.				
			(Level/CO)	Marks
Q. 1	Objective type questions. (Compulsory Question)			12
1	What are the values of x and z? x=5;z=x++; a.x=6;z=6 b. x=6;z=5 c. x=5;z=5 d. Error			Application 1
2	What is the result of operation in java? (Int)(7.9) a.7 b. 7.9 c. 8 d. Syntax Error			Application 1
3	What is the output of the following java code? Int m=1000; Int k=3000; While(++m <--k); System.out.println(m); a.2000 b. error c. 1000 d. 4000			Application <

	a. To pause the execution.	b. To terminate the case block.	c. To skip to the next case.	d. To repeat to case block.		
7	In multidimensional array how do you access the element in the second row and third column of an array named 'matrix'?				Analysis	1
	a. matrix[1][2]	b. matrix[2][3]	c. matrix[2][2]	d. matrix[1][3]		
8	The finally block is executed when an exception is thrown, even if no catch matches it.				Understand	1
	a. True	b. false				
9	Which keyword is used to prevent a class from being subclassed in java.				Understand	1
	a. static	b. final	c. abstract	d. sealed		
10	In java script, all tangible things are known as				Understand	1
	a. Objects	b. Method	c. function	d. variable		
11	How do we put java script inside HTML				Application	1
	a.<js>	b. <javascript>	c. <scripting>	d. <script>		
12	var x; cosole.log(x); x=25;				Application	1
	a. Undefined	b. 25	c. NaN	d. reference error		
Q. 2	Solve the following.					12
A)	Explain a) Conditional Operators b) Bitwise Operators c) Logical Operators in Java.				Understand	6
B)	Define a class circle having data members Pi and radius. Initialize and display values of data members also calculate area of circle and display it.				Application	6
Q.3	Solve the following.					12
A)	Write a program to check whether enter number is palindrome or not?				Application	6
B)	Define packages. What are API packages in java?				Understand	6

Q. 4	Solve Any Two of the following.		12
A)	How can we create a single-dimensional array initialized with random values in Java? Explain with example.	Analysis	6
B)	Write a program to define a class Student having data member as Name, Roll No and Marks of 3 subjects. Calculating total and average and display it for 5 Students using Array of Object.	Application	6
C)	Write the differences between interface and abstract class	Understand	6
Q.5	Solve Any Two of the following.		12
A)	What is an interface? List the rules to create an interface in java with example	Understand	6
B)	Define polymorphism. Explain run time polymorphism with the help of example	Application	6
C)	Describe final variable and final method. What is 'this'? Give example	Application	6
Q. 6	Solve Any Two of the following.		12
A)	Write the syntax of try-catch-finally blocks with example of division by zero	Application	6
B)	Write an html page and provide a JavaScript for accepting a user ID and password from the user to ensure that the input is not empty.	Application	6
C)	What is an exception? What are the types of exceptions in Java?	Understand	6
	*** End ***		