

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE****Winter Examination – 2022****Course: B. Tech. Branch :Computer Science & Engineering Semester :III****Subject Code & Name: BTCOC305(B) Object Oriented Programming in Java****Max Marks: 60****Date:****Duration: 3 Hr.****Instructions to the Students:**

1. All the questions are compulsory.
2. 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.
3. Write proper Syntax, example and program wherever necessary.
4. Assume suitable data wherever necessary and mention it clearly.

		(Level/CO)	Marks
Q.1	<b>Solve Any Two of the following.</b>		12
A)	Define Class, Method and Object? Show the syntax to define these in java.	Remember	6
B)	Explain parameterized constructor with java program.	Apply	6
C)	What are get () and set () method in java? State advantages of get () and set () method.	Understanding	6
Q.2	<b>Solve Any Two of the following.</b>		12
A)	Write a program in Java to display n terms of natural numbers and their sum.	Apply	6
B)	What is static variable and static function? State difference between static method and instance method.	Understanding	6
C)	Explain method overloading using java program.	Apply	6
Q.3	<b>Solve Any Two of the following.</b>		12
A)	What is an Array? How do you declare and initialize an Array in java? What are the disadvantages of Array?	Analysis	6
B)	How to pass Arrays to method and return from method in Java?	Understanding	6
C)	What is a Multidimensional array? Write a java program for addition of two dimensional arrays.	Apply	6
Q.4	<b>Solve Any Two of the following.</b>		12
A)	Describe the uses of super keywords with respect to inheritance.	Remember	6
B)	Explain concept of multilevel inheritance using a simple java program.	Apply	6
C)	What is an abstract class in java? What is an interface? List the rules to create an interface in java with example.	Understanding	6

<b>Q. 5</b>	<b>Solve Any Two of the following.</b>		12
<b>A)</b>	What is exceptions handling and state benefits of exception handling in java? Explain Java Exception Handling Keywords.	<b>Remember</b>	6
<b>B)</b>	What is package? Write a program to create user defined package in java.	<b>Analysis</b>	6
<b>C)</b>	How to declare variables in JavaScript? Write a Java script Program to add two numbers by using on click event, form and text box.	<b>Understanding</b>	6
	<b>*** End ***</b>		

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