

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Supplementary Summer - 2023****Course: B. Tech. Branch : Computer Science Engineering and Allied Second Year Semester :III****Subject Code & Name:BTCOC305B & (Elective) Object Oriented Programming in Java****Max Marks: 60****Date:21/08/2023****Duration: 3.00 Hr.**

	<i>Instructions to the Students:</i> 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. Use of non-programmable scientific calculators is allowed. 4. Assume suitable data wherever necessary and mention it clearly.		
		(Level/CO)	Marks
Q. 1	Solve Any Two of the following.		
A)	Write a Java Program to Check Whether a Number is Even or Odd	(Application)	6
B)	What are the advantages of the object-oriented programming language?	(Understand)	6
C)	List the primitive data types available in Java and explain.	(Understand)	6
Q.2	Solve Any Two of the following.		
A)	What are the benefits of break and continue statements explain with example?	(Analysis)	6
B)	Discuss default constructor and parameterized constructor with the help of an example in Java?	(Application)	6
C)	Difference between method overloading and method overriding	(Understand)	6
Q. 3	Solve Any Two of the following.		
A)	Write a program to sort the given input array in ascending and descending order? For example : Input: arr[]={ 13,41,2,21,9,25,3 }	(Application))	6
B)	Write a program to check whether enter number is palindrome or not?	(Application)	6
C)	Write the differences between interface and abstract class	(Understand)	6
Q.4	Solve Any Two of the following.		
A)	Define inheritance. What are the benefits of inheritance? How to prevent a class from inheritance?	(Understand)	6
B)	Explain different types of inheritance with diagram.	(Understand)	6
C)	Define polymorphism. Explain run time polymorphism with the help of example.	(Application)	6
Q. 5	Solve Any two of the following.		
A)	What is the difference between error and an exception? Explain with help of example	(Understand)	6
B)	Write the difference between Final, finally and finalize.	(Application)	6

C)	Explain try, catch and finally block with the help of example	(Application)	6
	*** End ***		

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