GUJARAT TECHNOLOGICAL UNIVERSITY
BVOC - SEMESTER–II EXAMINATION – SUMMER 2021

Subject Code:1120203   **Date: 18/09/2021**
Subject Name:Object Oriented Programming with JAVA
Time: 10:30 AM TO 12:30 PM   **Total Marks:50**
Instructions:
   1. **Attempt all questions.**
   2. **Make suitable assumptions wherever necessary.**
   3. **Figures to the right indicate full marks.**
   4. **Simple and non-programmable scientific calculators are allowed.**

			Marks
Q.1	**(a)**	Explain features of JAVA.	**05**
	(b)	Write a program in JAVA to find whether the given number is prime or not.	**05**
Q.2	**(a)**	Explain life cycle of applet.	**05**
	(b)	How do applets differ from application programs?	**05**
		OR	
	(b)	Develop a JAVA applet that receives three numeric values as input from the user and then displays the smallest of the three on the screen. Write a HTML page and test the applet.	**05**
Q.3	**(a)**	Discuss the different levels of access protection available in JAVA.	**05**
	(b)	Explain overriding method in Java with example.	**05**
		OR	
Q.3	**(a)**	Explain finalize method with suitable example.	**05**
	(b)	Explain String Class and StringBuffer Class with example.	**05**
Q.4	**(a)**	What is inheritance in java? Explain different types of inheritance with proper example partial code.	**05**
	(b)	Write a JAVA code that accepts a purchase list of five items from the command line and stores them in a vector.	**05**
		OR	
Q.4	**(a)**	What is wrapper class? Explain with example.	**05**
	(b)	Define package. Explain steps to create a package with example.	**05**
Q.5	**(a)**	Write a multithreaded program to compute and print prime numbers up to n where n is given as command line argument. Instantiate requited number of threads where each thread except the last, examines next 20 numbers and the last thread examines remaining numbers to check whether a number is a prime or not.	**05**
	(b)	What is "finally" block? When and how is it used? Explain with suitable example.	**05**
		OR	
Q.5	**(a)**	Explain thread in Java with suitable example.	**05**
	(b)	Discuss "try", "catch", and "throw" with java code.	**05**

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