

GUJARAT TECHNOLOGICAL UNIVERSITY**BVOC- SEMESTER- II EXAMINATION – SUMMER 2023****Subject Code:1120203****Date:20-07-2023****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) Write the features of Java.	05
(b) Explain the structure of java program with example. Explain the data types in Java.	05
Q.2 (a) Define package. Explain steps to create a custom package with example.	05
(b) Is multiple inheritance supported in java? Justify	05
OR	
(b) Explain wrapper class in java with example.	05
Q.3 (a) What is inheritance? Explain different types of inheritance with example.	05
(b) Explain super keyword with an example.	05
OR	
Q.3 (a) Explain access modifiers in java with example.	05
(b) Differentiate between Method-Overloading and Method-Overriding.	05
Q.4 (a) Demonstrate “Demon thread” with example.	05
(b) Implement runnable interface. Demonstrate it with example.	05
OR	
Q.4 (a) Explain synchronization and join method of thread.	05
(b) Write a multithreaded program to compute and print prime numbers up to 100. Instantiate required 5 threads where each thread examines 20 numbers to check whether a number is a prime or not.	05
Q.5 (a) Explain local applet and remote applet with example.	05
(b) How to design a webpage by using applet in java?	05
OR	
Q.5 (a) Explain life cycle of applet.	05
(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
