

GUJARAT TECHNOLOGICAL UNIVERSITY
B.VOC. SEMESTER– II– EXAMINATION – SUMMER 2019

Subject Code: 1120203**Date: 07/06/2019****Subject Name: OOPs 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.

		Marks
Q.1	(a) Explain features of JAVA.	05
	(b) Write a java program to print prime number upto 100.	05
Q.2	(a) What is constructor? How it is different from methods?	05
	(b) Declare a class called employee having employee_id and employee_name as members. Extend class employee to have a subclass called salary having designation and monthly_salary as members. Define following: - Required constructors - A method to find and display all details of employees drawing salary more than Rs. 20000/-. - Method main for creating an array for storing these details given as command line arguments and showing usage of above methods.	05
OR		
Q.3	(b) Explain method overriding with the help of example.	05
	(a) Differentiate between interface and abstract class.	05
	(b) What do you mean by dynamic method dispatching? Explain it by giving an example.	05
OR		
Q.3	(a) Explain JAVA API Packages in detail.	05
	(b) Create a class called product, each product has a name, code and price. Create a vector of product objects. Write a program to add, modify, delete product from vector. After above operations on vector, vector elements should be displayed.	05
Q.4	(a) Write a program that generates custom exception if any integer value given from its command line arguments is negative.	05
	(b) What are the steps for creating a new thread of execution?	05
OR		
Q.4	(a) Explain synchronization and join method of thread.	05
	(b) Give the difference between checked and unchecked exceptions.	05
Q.5	(a) Draw and explain life cycle of applet.	05
	(b) Describe the various sections of web page.	05
OR		
Q.5	(a) Write an applet that draws four horizontal bars of equal size & of different colors such that they cover up the whole applet area. The applet should operate correctly even if it is resized.	05
	(b) Explain event handling in JAVA.	05