

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.VOC- SEMESTER– II EXAMINATION – WINTER 2020****Subject Code:1120203****Date:18/02/2021****Subject Name:OOps with JAVA****Time:02:30 PM TO 04:30 PM****Total Marks:50****Instructions:**

1. Attempt any FIVE questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	<b>Marks</b>
<b>Q.1</b> (a) Explain features of OOP.	<b>05</b>
(b) Write a JAVA program to do sum of command line argument passed two Double numbers.	<b>05</b>
<b>Q.2</b> (a) What is constructor? How it is different from methods?	<b>05</b>
(b) Write a program that illustrates interface inheritance. Interface A is extended by A1 and A2. Interface A12 inherits from both P1 and P2. Each interface declares one constant and one method. Class B implements A12. Instantiate B and invokes each of its methods. Each method displays one of the constants.	<b>05</b>
<b>Q.3</b> (a) Differentiate between interface and abstract class.	<b>05</b>
(b) Write a JAVA program to define abstract class, with two methods addition() and subtraction(). addition() is abstract method. Implement the abstract method and call that method using a program(s).	<b>05</b>
<b>Q.4</b> (a) Explain JAVA API Packages in detail.	<b>05</b>
(b) What is wrapper class? Explain boxing and unboxing in detail.	<b>05</b>
<b>Q.5</b> (a) Write a program that generates custom exception for divide by zero situations.	<b>05</b>
(b) What are the steps for creating a new thread of execution?	<b>05</b>
<b>Q.6</b> (a) Draw and explain life cycle of thread.	<b>05</b>
(b) Give the difference between checked and unchecked exceptions.	<b>05</b>
<b>Q.7</b> (a) Draw and explain life cycle of applet.	<b>05</b>
(b) Describe the various sections of web page.	<b>05</b>
<b>Q.8</b> (a) Explain local applet and remote applet with example.	<b>05</b>
(b) Can we declare main ( ) in applet application? Justify your answer	<b>05</b>

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