Seat No.:	Enrolment No

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

ME - SEMESTER- II(Old course) • EXAMINATION (Remedial) - WINTER- 2015

Subject Code: 1722310		Code: 1722310 Date: 16/12/20	Date: 16/12/2015	
Tir	•	Name: Object Oriented Programming 30 pm to 5:00 pm  Total Marks:	70	
mst	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a) (b)	Discuss in detail the access specifiers available in Java.  Write the difference of following terms.  1. PATH v/s CLASSPATH  2. abstract Class v/s interface	07 07	
Q.2	(a) (b)	Explain the different methods in java.Util.Arrays class with example. What is dynamic binding? Explain with example.	07 07	
		OR		
	(b)	What is parameterized constructor? How is it useful in dynamic initialization of objects? Explain with example of point class defined with x and y coordinates.	07	
Q.3	(a) (b)	Compare and contrast overloading and overriding methods.  What is a constructor? Write a Java program to explain how super class constructors are called in their subclasses.  OR	07 07	
Q.3	(a) (b)	Explain various Layout managers in JAVA.  What are the two methods to create threads? Compare them. Explain them with an example Java program.	07 07	
Q.4	(a) (b)	Explain the life cycle of thread and synchronization in detail.  Create a 3-level inheritance hierarchy. Each class in the hierarchy should have a finalize ( ) method, and it should properly call the base-class version of finalize ( ). Demonstrate that your hierarchy works properly.  OR	07 07	
Q.4	(a) (b)	Explain different Array related exceptions with example.  Explain the following exceptions with example.  (i) ArithmeticException  (ii) NumberFormatException	07 07	
Q.5	(a) (b)	Explain various methods called during execution cycle of an applet.  Write an applet that accepts two numbers in two Textboxes and an arithmetic operator in other Textbox. When user press the õcalculateö Button the result after arithmetic operation should be displayed in the other Textbox.  OR		
Q.5	(a) (b)	Explain different event types in java. Also explain event handling in java. What is an Adapter class? Explain its purpose and functionality.	07 07	

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