Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V • EXAMINATION – SUMMER • 2014

Subject Code: 150704 **Date: 17-06-2014**

Subject Name: Object Oriented Programming with Java

Time: 10.30 am - 01.00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain features of JAVA.	**07**
	(b)	What is constructor? Explain constructor overloading with example.	**07**
Q.2	**(a)**	What is Multithreading ? Explain Life Cycle of Thread with example.	**07**
	(b)	Explain following with example: 1. Super keyword. 2. Final keyword	**07**
		OR	
	(b)	Explain Following: 1. Garbage Collection 2. Short Circuit Operators.	**07**
Q.3	**(a)**	Explain Dynamic method dispatch with proper example.	**07**
	(b)	Explain package and interface with Example.	**07**
		OR	
Q.3	**(a)**	What is an Exception? Explain Exception handling in JAVA.	**07**
	(b)	Explain thread Synchronization with join() and isAlive() methods.	**07**
Q.4	**(a)**	Answer Following: 1. Benefits of Generic types. 2. Explain Java Beans.	**07**
	(b)	Explain Delegation Event model. Also Explain use of Adapter class.	**07**
		OR	
Q.4	**(a)**	Differentiate the following: 1. Text I/O v/s Binary I/O. 2. String class v/s StringBuffer class.	**07**
	(b)	Explain life cycle of Applet. Create a simple Applet having a message “Hello”.	**07**
Q.5	**(a)**	Create an applet having a circle which is moving from left to right and reflected back from right to left continuously.	**07**
	(b)	Explain Layout Manager.	**07**
		OR	
Q.5	**(a)**	Create an applet that having three scroll bars for three colors red, green and blue with minimum 0 and maximum 255 values. The background color of applet changes depending on the value of the scroll bar at that time.	**07**
	(b)	Answer following: 1. Collection in JAVA. 2. Features of Map Interface.	**07**

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