

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: **07**
1. Super keyword.
2. Final keyword
- OR**
- (b) Explain Following: **07**
1. Garbage Collection
2. Short Circuit Operators.
- 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: **07**
1. Benefits of Generic types.
2. Explain Java Beans.
(b) Explain Delegation Event model. Also Explain use of Adapter class. **07**
- OR**
- Q.4** (a) Differentiate the following: **07**
1. Text I/O v/s Binary I/O.
2. String class v/s StringBuffer class.
(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: **07**
1. Collection in JAVA.
2. Features of Map Interface.
