

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – II • EXAMINATION – WINTER • 2013****Subject code: 1722310****Date: 04-01-2014****Subject Name: Object Oriented Programming****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 following words with suitable example. **07**
a. extends
b. implements
- (b) What is inheritance? Give difference between Abstract class and Final class. **07**
- Q.2** (a) Write and explain various loop structures in java. **07**
(b) List and explain various access modifiers in java. **07**
- OR**
- (b) Define the word package? List advantages of package. Also write example. **07**
- Q.3** (a) Define the word interface in java. Create interface Shape with getArea() method. Create classes Square, Circle and Triangle to implement Shape interface. **07**
(b) Differentiate words throw and throws with example. **07**
- OR**
- Q.3** (a) Write a note on Exception handling mechanism in java. **07**
(b) What is thread? Explain various methods of Thread class. **07**
- Q.4** (a) Write a java program to read data from text file and show contents on console. **07**
(b) Write a java program which takes one number from command line argument. And checks entered number is odd or even. **07**
- OR**
- Q.4** (a) Write a java program to illustrate the concept of switch-case. **07**
(b) Write a java program to demonstrate the use of various String methods. **07**
- Q.5** (a) List and draw various symbols (UML) used in class diagram. **07**
(b) What do you mean by layout manager in AWT? List and explain various layout managers in AWT. **07**
- OR**
- Q.5** (a) Draw the class diagram for library management system. **07**
(b) Explain event delegation model in AWT. **07**
