

GUJARAT TECHNOLOGICAL UNIVERSITY**M.E –IIst SEMESTER–EXAMINATION – JULY- 2012****Subject code: 1722310****Date: 14/07/2012****Subject Name: Object Oriented Programming****Time: 10:30 am – 13:00 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 features of JAVA programming **07**
language.

1. Platform Independent
2. Robust

(b) Define words – Class and Object? Explain the concepts of **07**
class and object with suitable example.

Q.2 (a) What is inheritance? Explain syntax of inheritance in java. **07**

(b) Differentiate following. **07**

1. Interface versus Abstract class
2. PATH versus CLASSPATH

OR

(b) Write and explain various access modifiers in java. **07**

Q.3 (a) Explain the concept of method overriding with suitable **07**
example.

(b) Define the word package in java. Enlist advantages of **07**
package. Also discuss steps to create package.

OR

Q.3 (a) Write a note on Exception handling in java. **07**

(b) Write a note on Thread lifecycle. Also enlist various **07**
methods and properties of Thread class.

Q.4 (a) What is the use of Layout manager in java? Explain **07**
various layout managers in java.

(b) Explain various symbols used in class diagram. **07**

OR

Q.4 (a) Explain border layout in java. **07**

Q.4 (b) Explain some important classes in java.util package **07**

Q.5 (a) Write a java program which takes one number from **07**
command line argument. And checks whether the number
is odd or even.

(b) Write a java program which takes file name from command **07**
line argument and shows content of file on screen.

OR

Q.5 (a) Write a program which creates Applet with one button and **07**
one textbox on it. When the button is clicked, “Hello
World” message should be displayed in textbox.

(b) Explain various string handling functions in java. **07**
