GUJARAT TECHNOLOGICAL UNIVERSITY

M.E -IIst SEMESTER-EXAMINATION – JULY- 2012

Subject code: 1722310

Subject Name: Object Oriented Programming Time: 10:30 am - 13:00 pm

07

07

07

07

07

07

07

Date: 14/07/2012 **Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Explain following features of JAVA programming 07 0.1 (a) 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. (b) Differentiate following. 1. Interface versus Abstract class 2. PATH versus CLASSPATH OR (b) Write and explain various access modifiers in java. 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 (a) Write a note on Exception handling in java. **Q.3** (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. OR **Q.4** (a) Explain border layout in java. (b) Explain some important classes in java.util package Q.4 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
