GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- III• EXAMINATION – WINTER 2016

Subject Code: 4430601 Date:18/11/2016 Subject Name: Java Programming Time: 10.30 AM TO 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. 0.1 (a) Do as Directed. 07 1) The _____ method sets the Background color of an applet. _____ is the Default Priority of Thread. 2) 3) _____ keyword is used to call the method of Parent class. Comment is for java documentation comment. 4) 5) Justify. A Class can extend more than one class in java. 6) Justify, Is it Possible in java to create arrays of zero length. 7) Method is used to convert String to Integer. (b) Define Following terms. 07 1. Garbage Collection 2. Package 3. Event 4. Checked and Unchecked exception 5. Inner Class 6. Interface 7. Daemon Thread 0.2 (a) Define Exception. Differentiate throw and throws with example. 07 (b) Explain Initializer block and class Initializer block. 07 OR (b) Explain static and final keyword with example. 07 Q.3 What is an Applet and explain life cycle of applet 07 (a) 1) Differentiate between abstract class and Interface. **(b)** 03 2) Differentiate between Method overloading and method overriding. 04 OR What is Layout Manager? Explain the different types of layout in details. 07 0.3 **(a)** (b) 1) Differentiate between Byte Stream and Character Stream. 04 2) Explain any three features of java 03 Explain Inheritance and types of inheritance in brief. **Q.4** 07 (a) (b) What is Thread and explain life cycle of Thread. 07 OR (a) Differentiate AWT and Swing 04 0.4 **Explain Synchronization Keyword** 03 (b) What is the use of Interface? Explain with example 07 Write a program to create an applet which shows random dots on random place Q.5 07 **(a)** continuously using Thread. (b) Write a program to read and write contents of file with the help of Random 07 Access File Handling. OR 07

Q.5 (a)Write a program to create an applet of Toggle Button (Start and Stop button)07(b)Explain JOptionPane with example.07