

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER- IV EXAMINATION – SUMMER - 2017**

**Subject Code:3640013****Date: 08-06-2017****Subject Name: Function 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)**
1. A top level window is called \_\_\_\_\_ in java. **07**
  2. JComponent is a subclass of \_\_\_\_\_ .
  3. In java all event objects ultimately derive from the class \_\_\_\_\_.
  4. What is appletViewer?
  5. What is the JDBC?
  6. What is serializable class?
  7. What is the role of remote Object in RMI?
- (b)**
1. What is the use of JComponent class? **03**
  2. Explain the following methods. **04**
    - a. getStringBounds()    b. setFont()
- Q.2 (a)**
1. Write code snippet to draw 2D Rectangle. **03**
  2. What is layout manager? Explain GridLayout? **04**
- (b)** Explain toolkit class to determining good frame size? **07**
- OR**
- (b)**
1. What is the use of JPasswordField? **03**
  2. Write code snippet to display the use of JTextArea(). **04**
- Q.3 (a)**
1. Describe relationship between event source and listener. **03**
  2. Give significance use of BorderLayout class. **04**
- (b)** Write code to display available font names using available font names using Graphics Environment class. **07**
- OR**
- Q.3 (a)**
1. Write code snippet to handle button click event. **03**
  2. What is tooltips? Explain with example. **04**
- (b)**
1. EventHandler.create must belong to public class. Justify. **03**
  2. List out any 4 action names and explain MNEMONIC\_KEY action. **04**
- Q.4 (a)**
1. Give the difference between callable statement and prepared statement. **03**
  2. What is mouse event? Explain in detail. **04**
- (b)** Explain in detail MODEL-VIEW-CONTROLLER pattern. **07**
- OR**
- Q.4 (a)** Explain JDialog class? Also write code to create simple dialogbox. **07**
- (b)**
1. Define the following terms. **03**
    - a. Metadata    b. savepoint    c. resultset
  2. Explain the following methods that are used with applet. **04**
    - a. start()    b. stop()    c. destroy()    d. resize()

- Q.5 (a)** What is adapter classes? Explain windowAdapet. **07**
- (b)** 1. Write code to display “GUJARAT TECHNOLOGICAL UNIVERSITY” on simple applet. **03**
2. Write code to display user information like firstname, lastname and age using Bean. **04**
- OR**
- Q.5 (a)** List out the steps to establish connection between JAVA and SQL using JDBC. **07**
- (b)** 1. Explain the JAVA RMI architecture. **03**
2. List out RMI logger. Explain sun.rmi.server.ref logger **04**

\*\*\*\*\*