Seat No.: _____   Enrolment No._____

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. a. getStringBounds() b. setFont()	**04**
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 BorderFactory 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.	EvenetHandler.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. a. Metadata b. savepoint c. resultset	**03**
		2.	Explain the following methods that are used with applet. a. start() b. stop() c. destroy() d. resize()	**04**

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**

****