

TU BSC / 109

Q. P. Code:-22728

(2 ½ Hours)

[Total Marks:75]

- N.B: (1) All questions are compulsory.
 (2) Figures to the right indicate marks.
 (3) Illustrations, in-depth answers and diagrams will be appreciated.
 (4) Mixing of sub-questions is not allowed.

- Q1. **Attempt the following (any THREE):** (15)
- Features of JFC.
 - Explain with methods JDesktopPane and give example.
 - What is the use of JRadioButton? How to create object of these classes?
 - Explain any three text entry components in swing.
 - Write a program in java which takes name and age from the user on click of the button and display a message, user is eligible to vote or not.
 - Write a java program that creates a list Containing Ice-cream flavors. On Selection of any flavor price should be displayed in text field. Using ItemListener.
- Q2. **Attempt the following (any THREE):** (15)
- Explain JMenu class with any one method. Give Example.
 - What is JProgressBar ? Explain with example.
 - What are the steps for creation of thread?
 - How to create tree in swing. Give example.
 - What is Thread safe variable?
 - Write a java program to implements JTabbedPane.
- Q3. **Attempt the following (any THREE):** (15)
- Explain Type 3 and Type 4 Drivers in JDBC.
 - What is ResultSet ? Explain with example.
 - Explain any two SQL Exception in JDBC.
 - Write a short notes on Statement in JDBC.
 - Write a JDBC program to create a table product (id number,name varchar,pricer varchar). And insert a record in the table.
 - Write a JDBC program to accept empid as command line argument. And Display the name of employee who is getting highest salary from employee table(EMPID,EMPNAME,EMPSAL).
- Q4. **Attempt the following (any THREE):** (15)
- What is InetAddress class? Explain methods with parameter and return type.
 - Explain any five methods of URL class.
 - Explain architecture of RMI.
 - What is socket explain with example.
 - Write a program to read the content of URL. Using URLConnection class.
 - Define the interface and implementation class a RMI system with a method that accepts a number and return square root of the number.

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Q5. Attempt the following (any THREE): (15)

- (A) Write a program in java to divide a frame in two parts.
- (B) Write a swing program containing three text fields. First text field accepts Last Name and second text field accepts First Name. On click of button full name is displayed in third box.
- (C) Explain connection interface and its method.
- (D) What are the steps involved in creating RMI.
- (E) Explain with example JComboBox and its method.
- (F) Write a Server program to return factorial of a number to client using Socket.
