QP Code : 76980

(2½ Hours)   [Total Marks : 75

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

1. Attempt the follwing (any **three**) :—
    (a) Explain JOptionPane and any two methods at it.
    (b) Explain with methods JFrame and JInternalFrame.
    (c) What is the use of JCheckBox and JRadioButton ? How to create objects of these classes ?
    (d) Explain any three text entry components in swing.
    (e) Write a program in Java which takes name and age from the user on click of the button and display a message on lable, user is elegible to vote or not.
    (f) Write a Java program that creates a list containing ice-cream flavours. On selectin of any flavor price should be be displayed in text field.

2. Attempt any following (any **three**) :—   15
    (a) Explain JColorChooser class with any one method. Give example.
    (b) How do you synchronize thread explain with examples ?
    (c) What are the steps for creation of thread ?
    (d) How to create table in swing. Give example.
    (e) What is Thread Safe Variable?
    (f) Write a Java Program to display odd numbers between 1 to 100, after every 10 seconds.

3. Attempt the following (any three) :—   15
    (a) Explain Type 1 and Type 2 Drivers in Jdbc.
    (b) What is ResultSetMetaData ? Explain with example.
    (c) Explain exception in Jdbc.
    (d) Write a short note on Callable Statement in Jdbc.
    (e) Write a Jdbc program to create a table product (id number, name varchar, price number) and insent a record in the table.
    (f) Write a Jdbc program to accept empid as command line argument and display name of employee who is getting heighest salary.

[TURN OVER

QP Code : 76980

4. Attempt the following (any **three**) :—   15
    (a) What is InetAddress Class ? Explain methods wih parameter and return type.
    (b) Explain any five methods of URL class.
    (c) Explain the following :—
         (i)   Stubs and Skeleton
         (ii) Remote Reference Layer.
    (d) What is server socket explain wih exmaple ?
    (e) Write a program to read the content of URL, Using URLConnection class.
    (f) Define the interface and implementation class of RMI system with a method that accept a number and return factorical of the number.

5. 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 two text field to accept value of "a" and "b". Also include a button which when dicked shows the value of "c" in lable [$c^2 = a^2 + b^2$]
    (c) Explain Statement interface and its methods.
    (d) What are the steps involved in creating RMI.
    (e) Explain with example JList and JComboBox.
    (f) Write a Server Program to return Date and Time to client using socket programming.