MM : 70   Time : 3 hours

Instructions:

i) All questions are compulsory.

ii) Answer the questions after carefully reading the text.

iii) Please check that this question paper contains 7 questions.

iv) Do all the parts of same questions together.

Q1

(a) Out of the following devices , classify them as input & output devices.

(i) Light pen   1

(ii) flatbed plotter   1

(iii) drum printer   1

(iv) OMR   1

(b) Differentiate between the application software & system software   2

(c) What measure would you take to avoid: 2

(i) virus attack (ii) PC intrusion

(d) Write the function of the following : (i) address bus (ii) control bus   2

Q2

(a) What is the name of event listener interface for action events ?   1

(b) What is the significance of break in a switch.   2

(c) Differentiate between the following: 2

   (i) for and while   1

  (ii) break and continue   1

(d) Why is program maintenance considered very important.   2

(e) Marks of a student is stored in a string variable strMarks. Write a java statements to convert marks in double variable dblMarks.

1

Q3

(a) What is a database? Also explain the relational database.   2

(b) What is Primary Key? How it is different from candidate key ,explain with eg.   2

(c) Differentiate between the following: 2

  (i) DDL & DML commands.   (ii) in / between operator

(d) Describe the order by clause with syntax & example.   2

(e) A table 'Customers' in a database has 5 columns and no rows in it. What is its   2
cardinality? What will be its cardinality if 4 rows are added in the table?

Q4

(a) The following code has some errors. Rewrite the correct code :

```
  int i,j=5;                                                                           2

  i==j+5;

 if(i=j)

 {

    jTextField1.setText("i and j are unequal");


jTextField2.setText("they are not equal"); break;

 }

 else jTextField1.setText("i and j are equal");
```

(b) Write code to add an element ("New Course") to a list (SubList) at the beginning   1
of the list.

(c) What will be the output produced by following code fragment?   2

```
   flaot x=9;

   float y=5;

   int z=(int)(x/y);

   switch(z)

   {
```

```
        case1:      x=x+2;

        case2:      x=x+3;

        default:    x =x+1;

        }

        System.out.println("value of x:"+x);
```

(d) Rewrite the following code using while loop: 2

```
        int  i,j;

        for(i=1,j=2;i<=6;i++,j+=2)

                System.out.println(i++);

                System.out.println("Finished!!!");
```

(e) Write a program in Java that takes a number and check if the number is prime or not. 2

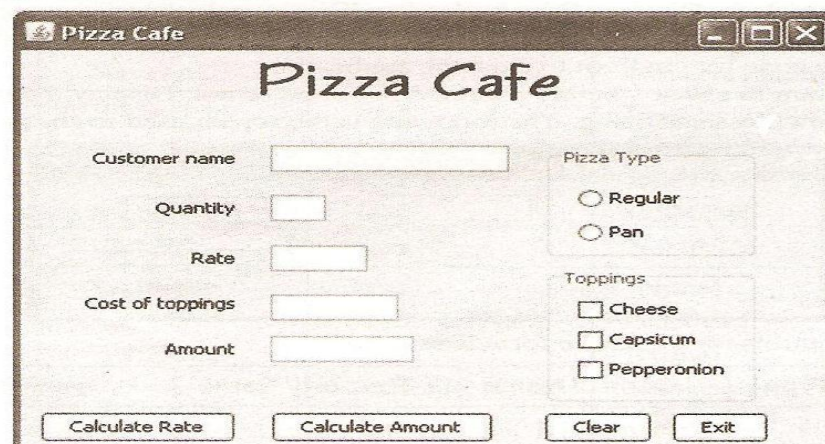(f) Write the expression to print the value of a variable "x" of type int in a label.   **1**

(g).   **6(2+2+1+1)**

Read the following case study and answer the questions that follows :
The Pizza Cafe has computerized its billing. The following is the data entry screen used at
their outlet. The outlet offers two different types of pizzas, regular and pan pizzas. The price of
a regular pizza is Rs. 120 and that of a pan pizza is Rs. 160. The user can choose to have three
different types of extra toppings of he wants. Extra toppings costs as :

Topping	Cost
Cheese	40
Capsicum	20
Pepperonion	25

(a) Write the code for Calculate Rate button to calculate the rate of the pizza and display it in txtRate depending on the type of pizza selected by the customer.

(b) Write the code for cmdAmount to calculate the total amount and display it in txtAmount. The total amount is calculated by first finding the cost of extra toppings selected by the customer. Remember that each extra topping adds the value with previous topping. Then add it to the rate and multiply the resultant amount by the quantity ordered.

(c) Write the code for Clear button to clear all the text boxes and make default to Regular Pizza Type and Cheese as Topping.

(d) Write the code for cmdExit to exist the application.