CLASS XI
SAMPLE PAPER
INFORMATICS PRACTICES

TIME : 3Hrs.   M.M. 70

1..(a)What value is assigned to n in the following code fragment, when value equals 5?   1

```
switch (value)
{
    case 1: n=10; break;
    case 2: n=30; break;
    case 3: n=20; break;
    default: n=0;
}
```

(b) How many times is the following loop executed?   1

```
int x=5;
int y=5;
while (x <= 5)
{    y=y + x;
     x=x + 1;
}
```

(c) While working in NetBeans, Ms.Korpi wants to display "Pass" or "Needs to Reappear" message depending on the marks entered in jTextField. Help her to choose the more appropriate statement out 'I statement' and 'Switch' statement'.   1

(d) Determine the error in the following statement: 1

```
int 2 = a, b = 5, c =11; d = 12;
```

(e) Write one difference while loop and do_ while loop.   1

(f) Identify the correct answer: 5×1=5

   (i) If x=3 and y=7 then what will be the value of z ? If

```
z= x++ + y++;
```
   (a) 10   (b) 11   (c) 12   (d) None of these

   (ii)   int a;

```
int b = 10;
a = 10 % 5;
b = b + a;
System.out.print(a);
System.out.print(b);
```
   Out put will be:
   (a) 10,0 (b) 0,10   (c) 2,12   (d)12,2

(iii) The statement i=i+2; equivalent to
(a) i = i + i;   (b) i +=2;   (c) i =i+i+i;   (d) i=i*2+i;
(iv) int a=0, b=1;
Which of the following statement is correct:
(a) a >= b   (b) a < b   (c) a =< b   (d) a > b
(v) Suppose, a=55 and b=22, then value of a%b is
(a) 5   (b) 2   (c)11   (d)2.5

2.(a) Zubeen wants to list the names of all the tables in his database namely Student. What command should he write at MySQL prompt to get this result?   1
(b) A table " Book " in a database has degree 4 and cardinality is 14. What is the number of rows in it?   1
(c) Define Candidate key in table.   1
(d) Ms Marina wants to remove the entire content of a table "INFO" but not its structure. For this he worte following MySQL command:
DELETE * FROM INFO; Was it correct?   1
(e) Mrs Lima is using table – EMP with the following columns:
EMPNO, ENAME, SALARY , DOJ
She wants to display all information of employees in ascending order of ENAME. She wrote the following MySQL query and she did not get the desired output,
    SELECT * FROM EMP WHERE ORDER BY ENAME;
Rewrite the above query to get the desired output.   1
(f) Identify the correct answer: 5×1=5
    (i) Number of columns in table is called
    (a) Power   (b) Degree   (c) Cardinality   (d) Design
    (ii) A database
    (a) Contains table   (b) Is a part of a table   (c) Is same as a table   (d) None of these
    (iii) DML means
    (a) Data Multiple Language   (b) Data Matriculation Language
    (c) Data Monitoring Language   (d) Data Manipulation Language
    (iv) SELECT INSTR('CORPORATE FLOOR','OR'); Result of the query is-
    (a) 2   (b) 2,5,14   (c) 2,3   (d) None of these
    (v) POWER(m,n) returns:
    (a) m raised to the n th power   (c) m raised to the m th power
    (b) n raised to the m th power   (d) None of the above

3. (a) What message will be displayed after the execution of the following code?   2
    int Age = 24,Relaxation=6;
    int MAge = Age- Relaxation;
    - -Mage ;
    if (MAge < 18)
        jTextField1.setText(""+MAge);
    else
        jTextField1.setText(""+Age);

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(b) Rewrite the following program code using an if statement: 2
```
int C =Integer.parseInt(jTextField1.getText());
switch( C )
{
    case 0   : jTextField1.setText("South");        break;
    case 10 : jTextField1.setText("Point");        break;
    case 20 : jTextField1.setText("School");        break;
    default :
    jTextField1.setText("Guwahati");  }
```

(c) The following code has some error(s). Rewrite the correct code underlining all the corrections made: 2
```
int sum = 0;
Int i ;
for( i = 0 , I <= 5 , I ++)
{
    Sum =sum + i ;
}
jTextArea1. showText ("  " + sum);
```

(d) Rewrite the following program code using a for loop: 2
```
int i = 10, sum = 0;
do {
        sum += i;
        i += 2;
    } While( i < 20);
```

(e) What will be the value of a and b after execution of following code; 2
```
int a = 1, b = 2;
if ( ++b < 50)
{
    a =a * b;
}
```

4. Create a table -CVOTER with following structure and Insert at least four rows into it.2+2+6=10

Filed name	Date Type/size
Vno	Integer(4)
Vname	Varchar(30)
Age	Integer(3)
Address	Varchar(30)
Phone	Double(16)

Write the SQLs for the followings:

(a) To list Vno,Vname,Age for all the the voters. This information should be sorted on Vname.

(b) To list all the voters where address is not 'Guwahati'

(c) To add oe new column named VGender datatype char(1) .

(d) To list voters where address is "Delhi" but age not between 20 and 30.

(e) To delete the records of all those voters who are either residing in "Mumbai" or whose Age <25.

(f) To drop the table.

5. (i) Write the full form- (i) GUI (ii) IDE   1
    (ii) What is the difference between statements (i) and (ii)   1
        (i)   t =20 ;
        (ii) if (t = = 20)
              d = 30;
    (iii) Write the values of r and s after the execution of the following code: 2
              int p = 110;
              int q = 210;
              int r;
              int s;
              r = ++q;
              s = p++;
              r++;

    (iv)) The NAME column of a table SCHOOL is given below:

NAME
Rashmi
Rumi
Abhilasha
Sonam
Mumtak
Saya

  Based on this information , find the output of the following queries :   2
        (i)   Select NAME from SCHHOL where NAME Like "%a%";
        (ii)   Select NAME from SCHHOL where NAME Like "A%" and Length(Name)=9;

(v) What is the use of UPDATE statement in SQL? How is it different from ALTER statement ?   2

    (vi) A numeric data field COUNTER stores a value 35675.8765. Write a command to round off
Counter to - (a) Whole number   (b) Upto 3 decimal places   2

6. (i)"ABC Store" has given according to following scheme to their members-   4

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Member Type	Discount
Red	20% of Amount
Blue	15% of Amount
Green	10% of Amount

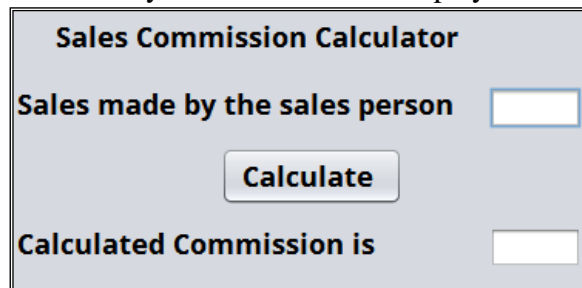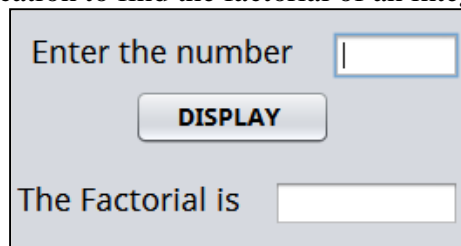Net Amount is calculated as: Net Amount = Bill Amount – Discount

(ii) Write a program to calculate commission for the salesman. The commission is calculated according to following rates:

Sales	Commission Rate
5001-12000	3%
12001-15099	5%
16000-19999	7%
Above 20000	10%

The program accepts the sales made by the salesman and displays the calculated commission.   3

(iii) Write a Java Desktop application to find the factorial of an integer.   3

7 . Write SQL Commands for (a) to (e) and write the outputs for (f) on the basis of the following table :   10

Table : FURNITURE

NO	ITEM	TYPE	DATEOFSTOCK	PRICE	DISCOUNT
1	White Lotus	Double Bed	2002-02-23	3000	25
2	Pink feathers	Baby Cot	2002-01-29	7000	20
3	Dolphin	Baby Cot	2002-02-19	9500	20

4	Decent	OfficeTable	2002-02-01	25000	30
5	Comfort zone	Double Bed	2002-02-12	25000	30
6	Donald	Baby cot	2002-02-24	6500	15
7	Royal Finish	Office Table	2002-02-20	18000	30
8	Royal tiger	Sofa	2002-02-22	31000	30
9	Econo Sitting	Sofa	2001-12-13	9500	25
10	Eating Paradise	Dinning Table	2002-12-19	11500	25

(a) To list the type and price which dateofstock between 2002-02-15 to 2002-02-28.
(b) To change the price of all furniture by adding another Rs. 1000 to their price whose type is sofa.
(c) To delete the record of all item where discount is 30.
(d) To display the price of Royal tiger.
(e) To list item name, type and price all items whose names ended with f.

(f) Give the output of following SQL statement :
    (i) SELECT DISTINCT (TYPE) FROM FURNITURE;
    (ii) SELECT ITEM,TYPE FROM FURNITURE WHERE DISCOUNT>25;
    (iii) SELECT ITEM,TYPE,PRICE FROM FURNITURE WHERE TYPE="BABY COT";
    (iv) SELECT PRICE FROM FURNITURE WHERE DATEOFSTOCK < '2002-02-12';
    (v) SELECT INSTR(ITEM,'S') FROM FURNITURE;

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