CLASS XI
SAMPLE PAPER-065
INFORMATICS PRACTICES

Time -3Hours   **Marks-70**

1.Answer the following :

         i. Define the term Software. What do you mean by presentation software?   2

         ii.Write down the four major functions of an operating system.   2

         iii.What is a computer virus ? Differentiate between a virus and a worm.   2

         iv. Define the term Firewall in computers. How does firewall work?   2

         v. How does Cyber Police Works? Name the cyber act in India .   2

2.   (a) What is the difference between the use of jTextField and jListBox in a form?   1
            (b)How one can make a Text Field un-editable?   1
            (c)What will be the value of sum after executing the following code: 2

```
int x, sum = 10;
        for (x= 1; x <=5; x++)
        {
                sum - =x;
        }
```

            (d) Write code in Java that takes value for a number(n) in jTextField1 and cube (n*n*n) of it to be displayed
            in jTextField2   2

            (e) What will be the values of num and num1 after execution of the following code: 2

```
int num,num1=0;
for(num=1;num<=1;num++)
{
        num1= num+2;
        --num1;
}
```

         (f) Convert the following into if statement: 1

```
int ch=Integer.parseInt(jTextField1.getText());
switch(ch)
{
        case 1:jTextField2.setText("Service");break;
        case 2: jTextField2.setText("Complaint");break;
        case 3: jTextField2.setText("Operator");break;
        default: jTextField2.setText("Not a valid entry");
}
```

         (g) Rewrite the following code segment by using do-while loop, without changing the output :   2

```
int i=1, sum=0;
while (i<15)
{       sum +=i;
        i +=2;
        i ++ ;
}
```

(h) Find out the error(s) in the given code and rewrite the corrected code underlining the corrections made.   2

```
int First = 7;
int Second = 73;
First++;
if (First ++ Second> 90)
        jLabel1.getText( "value is 90" )
else
        jLabel1.getText( 'value is not 90' );
```

(i) Mr. Somani wants to display all the odd numbers between 1 to 100 and for that he has written the following code

```
for(int a=1; a<=100; a=a+1)
        System.out.println(a);
```

But he is not getting the desired output. Help him by correcting the code to get the desired output.   2

3.   Answer the following questions:

a.   What will be the contents of jTextField1 after executing the following statement :   1

```
int n=6;
n=n-6;
if(n<0)
        jTextField1.setText(Integer.toString(n));
else
        jTextField1.setText(Integer.toString(n-2));
```
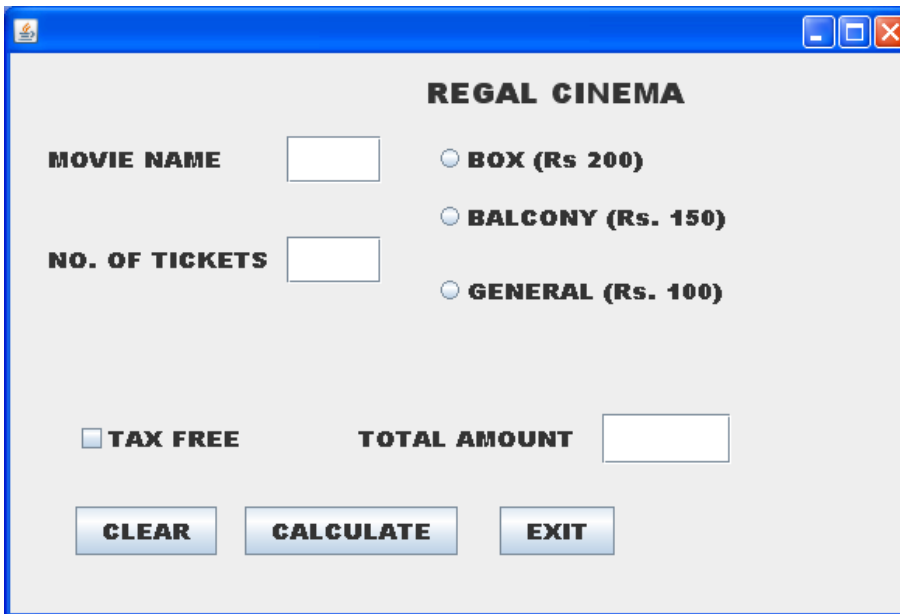
b.   The following code has some error(s). Rewrite the correct code underlining all the corrections made: 2

```
Int n1, n2=10;
n1=n2-5;
if(n1=n2)
        jTextField1.setText("n1 and n2 are equal");
else
        jTextField1.setText("n1 and n2 are not equal");
```

c.   The Admission No. of a student is stored in a variable strAdmno. Sugandha wants to store this admission no. in an Integer type variable intAdmno. What java statement should she write to do this?   1

d.   Regal Theater has computerized its ticketing system. The programmer has developed a GUI application in Netbeans as shown below:

At ticket counter, three types of tickets(Box, balcony and General) at the rate of 100, 75 and 50 respectively are available. If the movie is tax free , then the total amount should be deducted by Rs.15 per ticket.

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a) What should be done so that only one of the radio button (Box, Balcony and general) can be selected at a time.
    1

b) Write code to do the followings :
1. Calculate and display the Total amount in the corresponding text field when calculate button is pressed.   3
2. Clear all the text fields.   1
3. Close the application when Exit button is clicked.   1
    Note : (You can assume any suitable names for various controls on the form)

4..(i) If a database "KEA" exists, which MySQL command helps you to delete that database?   1

  (ii) Pooja, a student of class XI, created a table "Book". Price is a column of this table. To find the details of books whose

    prices not between 100 to 150 wrote the following query:

        SELECT * FROM BOOK WHERE PRICE NOT BETWEEN 100 TO 150 ;

    Help Pooja to run the query by removing the errors from the query and rewrite it.   1

 (iii) The LastName column of a table-Directory is given below: 2

LastName
Batra
Sehgal
Bhatia
Sharma

| Mehta |

Based on this information, find the output of the following queries:

(a)   Select lastname from directory where LastName like "%a";
(b)   Select lastname from directory where LastName not like "%a%";

(iv) Describe the following command.   3

   (a)Mysql> select ename from emp where not   ename like'%S';
   (b)Mysql> Select ename,job sal from emp where mgr is null and sal<40000;(c) Select * from emp where comm.= sal;

(v) A table Lab in a database has 2 columns and 3 rows in it. What is its cardinality? What will be its degree if 12 rows are added in the student table?   1

(vi) g.   The contents of Item_no and Cost columns of a table "ITEMS" are given below: 2

Item_no	Cost
101	5000
102	6000
103	NULL
104	NULL
105	6000

Based on this information, find the output of the following queries:

(a)SELECT Cost FROM ITEMS where COST>=5000;

(b)SELECT COST+100 FROM ITEMS WHERE Item_no>103;

5. (i)Create the table-Customer as per following structure: 2

Column Name	Data Type/Size
Cust_Id	integer
C_Date	date
Cust_Name	char(20)
Cust_Address	varchar(30)

Amount	decimal(7,2)
Cust_Phone	integer(10)

(ii) Insert six(6) rows into above table.   2

Write the queries for the above table: *1×6*

(iii) To list the distinct Cust_Address.

(iv) To modify the name of the customer of cust_id=5 to Raja.

(v) To arrange the data of the above table in ascending order of amount.

(vi) To display customer details whose name starting with 'S'.

(vii) To display customer's name who have their amount in the range of 1000.00 to 2000.00

(viii) To remove the entire contents of customers.

6. Write the output of the followings: 10×1

     (a) Select length(upper('We are here to study'));

     (b) Select substr(trim('   Informatics Practices   '),12,12);

     (c) Select concat('Infrom','atics','Practices');

     (d) Select round(29.84,1),round(29.84,-1);

     (e) Select right(lower('select MySQL'),5);

     (f) Select InStr('Display the position','th');

     (g) Select sign(-.654);

     (h) Select truncate(75.796,-2);

     (i) Select dayofmonth('2014-08-07');

     (j) Select MOD(2.2 , 2);

7.   i. Define e-governance. How society benefited from e-governance, write one point   2

     ii. Define e-business. Give one example of e-business web site .   2

     iii. Define e-Learning.   1