CLASS XII
GUESS PAPER
INFORMATICS PRACTICES

TIME : 3Hrs.   **M.M. 60**

General Instructions: -

1). This Question paper is divided into three sections. Section- A, Section- B, and Section- C

2). Section – A consist of 10 Marks, Section – B consist of 25 marks and Section – C consist of 25 marks

3). Don't write un-necessary answer in your answer sheet.

Section – A

Q1. Write in brief the purpose of the following software: **(1 x 4=4)**

      a). MySQL

      b). LINUX

      c). Mozilla

      d). Apache Server

Q2. Distinguish between :   **(2)**

      Open Source Software and Propriety Software

Q3. Write the full forms of the following :   **(0.5 x 4=2)**

      a). OSS   b). GNU   c). W3C   d). FOSS

Q4. The Omnipresent organization has set up its new center at New Nagar for its office and web based activities. It has four blocks of buildings as shown in the diagram below: **(0.5 x 4=2)**
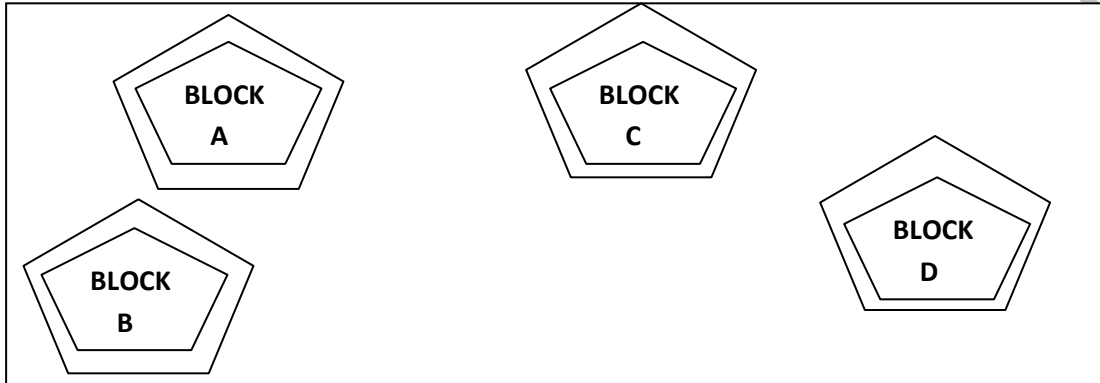
A to B	40 m
B to C	120 m
C to D	60 m
A to D	170 m
B to D	150 m
A to C	70 m

Distance between the various blocks is as follows :
Nubers of Computers

Block A	25
Block B	50
Block C	125
Block D	10

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(i). Suggest a cable layout of connections between the blocks and topology.

(ii). Suggest the most suitable place (the block) to house the server of this organization with a
   suitable reason.

(iii). Suggest the placement of the following device with justification.

   a).   Repeater

   b).   Hub/Switch

(iv).The Organization is planning to link its front office suited in the city in hilly region where cable connection
   is not feasible, suggest an economy way to connect it with reasonably high speed.

Section – B

5) a). i). Define a class Book with the following specifications :   **[3]**

   Data Members of the class Book are :

   BOOK_NO   INTEGER

   BOOK_TOTLE STRING

   NO_OF_BOOKS   INTEGER
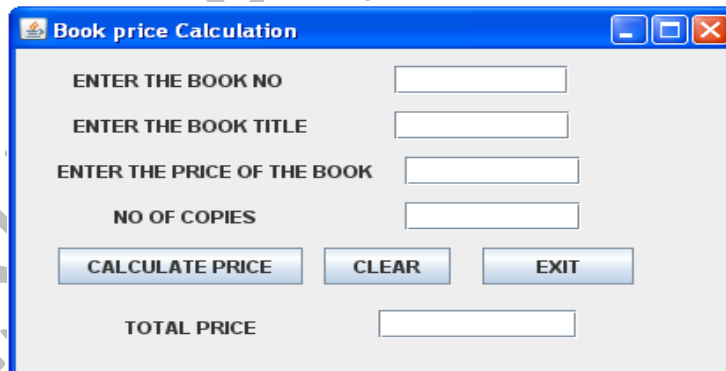
   PRICE   FLOAT (Price per copy)

   TOTAL_COST()   A Function to be calculate the total cost for number of copies.

               Member method of the class book are :

   INPUT()   Function to read NO_OF_BOOKS, BOOK_TITLE, PRICE.

    The following is the screen used to declare class to calculate total cost :

    The list of the controls for the above form is as follows :

Control Type	Control Name	Property Title	Property Value
JTextField	JTextField1	Variable Name	txtBno
	JTextField2	Variable Name	txtBName
	JTextField3	Variable Name	txtPrice
	JTextField4	Variable Name	txtNo
	JTextField5	Variable Name	txtTotal
JButton	JButton1	Variable Name	btnPrice
	JButton2	Variable Name	btnExit

a). Define a Java Class Book with required specification.

b). Write the code for calculation price buttons click event procedure to operate the class Book's Method.

c). Write the code for EXIT button to exit application.

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ii). Define a Java class 'Tour' with the following specification: [3]

Data Members

TCode   INTEGER

No_of_Adults   INTEGER

No_of_Kids   INTEGER

kilometers   INTEGER

Total_Fare   Float

A function AssignFare() which calculates and assigns the value of the data member Total_Fare as follows :

FARE   FOR KILOMETERS

500   >=1000

300   <1000 & >=500

200   <500

For each Kid the above fare will be 50% of the Fare mentioned in the above table.

For example:

if Kilometers is 850, No_of_Adults =2 and No_of_Kids =3

then Total_Fare should be calculated as :

No_of_Adults*300 + No_of_Kids*150

i.e. 2*300 + 3*150 = 1050

a). A function EnterTour() to input the values of the data members TCode, No_of_Adults,

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No_of_Kids, and Kilometers, and invoke the AssignFare() Function.

b). A function ShowFare() which displays the total fare for the tour.

The following is the screen used to declare class to calculate Fare :
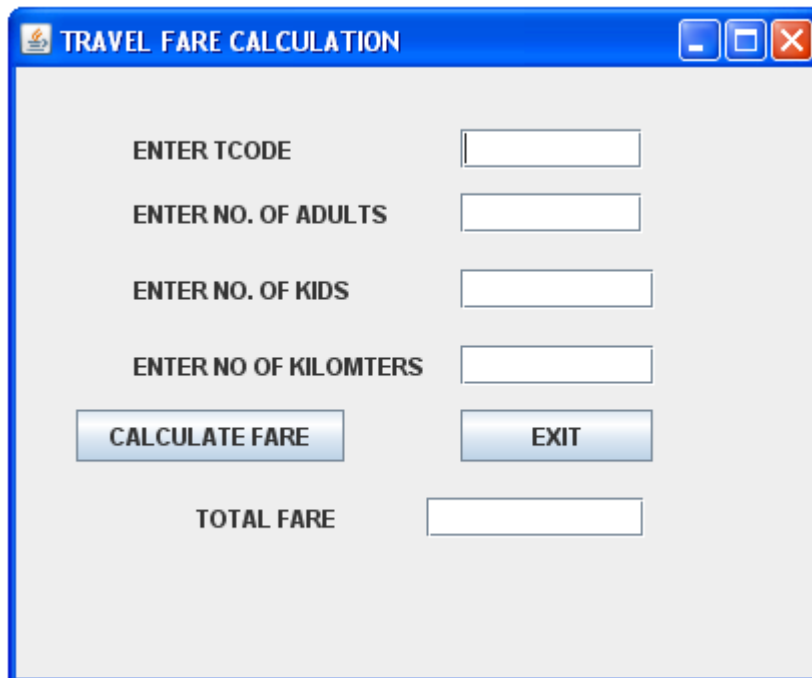
Control Type	Control Name	Property Title	Property Value
JTextField	JTextField1	Variable Name	txtCode
	JTextField2	Variable Name	txtA
	JTextField3	Variable Name	txtK
	JTextField4	Variable Name	txtKL
	JTextField5	Variable Name	txtP
JButton	JButton1	Variable Name	btnF
	JButton2	Variable Name	btnExit

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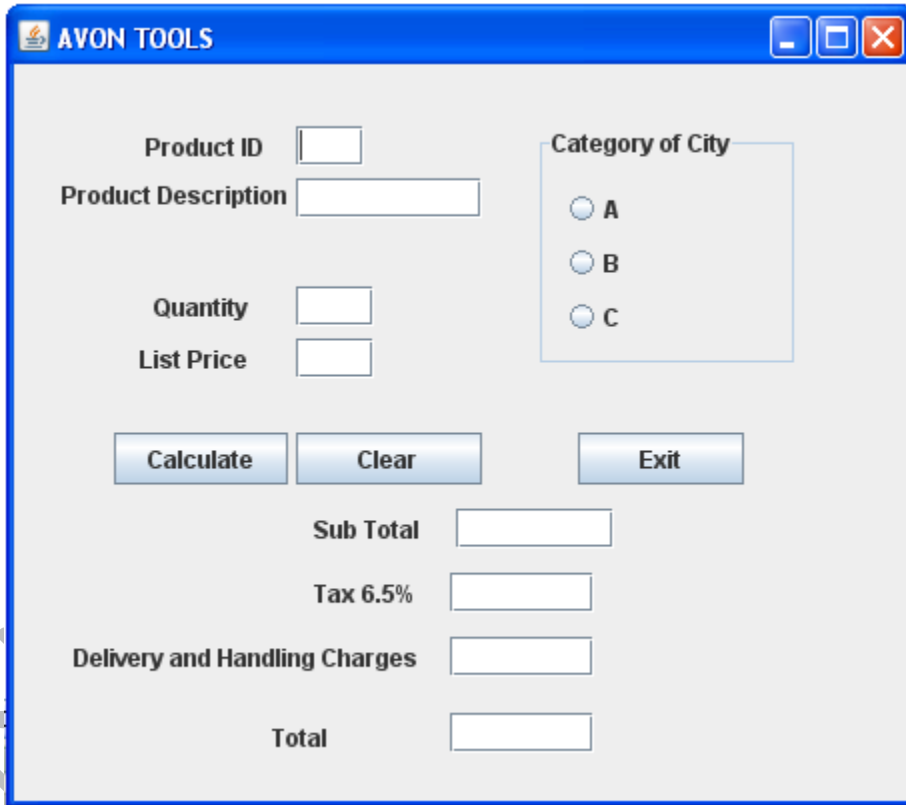**Define a class Tour with required specification.**
b). write the code for Calculate Fare buttons click event procedure to operate the class Tour'
  Method.
c). Write the code for EXIT button to exit application.

iii). Read the following case study and answer the questions that follow : [3]
  AVON Tools has computerized its billing. The following is the data entry screen in NetBeans IDE used by them :

The list of controls for the above form is as follows :

Control Type	Control Name	Property Title	Property Value
JTextField	JTextField1	Variable Name	txtPID

		JTextField2	Variable Name	txtDesc	
		JTextField3	Variable Name	txtQty	
		JTextField4	Variable Name	txtPrice	
		JTextField5	Variable Name	txtSub	
		JTextField6	Variable Name	txtTax	
		JTextField7	Variable Name	txtCharge	
		JTextField8	Variable Name	txtTotal	
When clicks Button, values the and	JRadioButton	JRadioButton1	Variable Name	optA	the user Clear all the stored in text boxes option
		JRadioButton2	Variable Name	optB	
		JRadioButton3	Variable Name	optC	
	JButton	JButton1	Variable Name	btnCalc	
		JButton2	Variable Name	btnExit	

button should be cleared and set the category of the city as A.

When the command button with caption "Calculate" (cmdCalculate) is clicked, subtotal, tax (6.50% of subtotal), delivery and handling charges and Total Amount are computed and displayed.

The criterion of calculation of Delivery and handling charges is as given below:

Category of City	Charges
A	Rs. 2,000
B	Rs. 3,000
C	Rs. 3,500

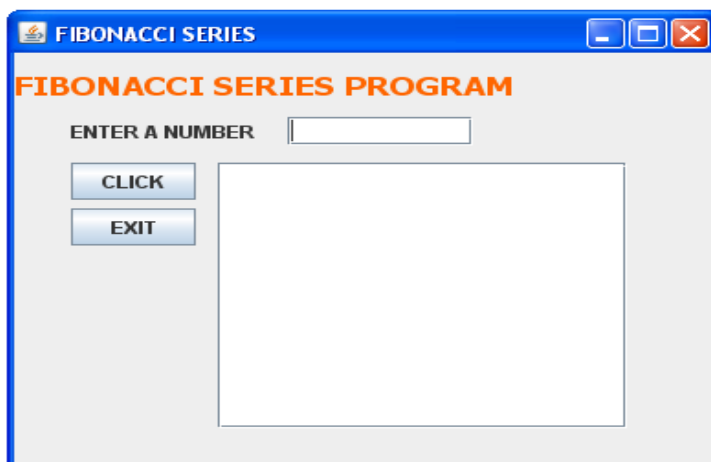Sub total is calculated by multiplying Quantity price.

Tax is calculated as 6.50% of Sub Total.

Total is calculated as the sum of sub total, tax, delivery and handling charges.

c). write the code for Exit Button to close the application.

6) . i). Write a program to implement Fibonacci Series (i.e. sum of previous number is the next   [2]
number). e.g. (1   1   2   3   5   8   13 ………)
store the resulted series in the JTextArea1. The following is the screen used to find Fibonacci Series.

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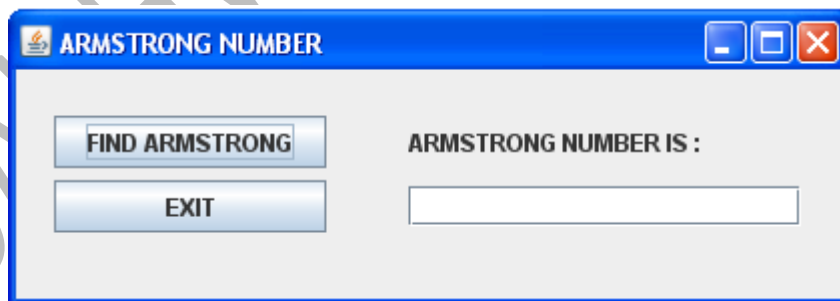
ii). Write a program to input any number and print them in reverse order using while statement.   [2]

Whereas the input number must be positive. The following is the screen used to print the reverse of a number.
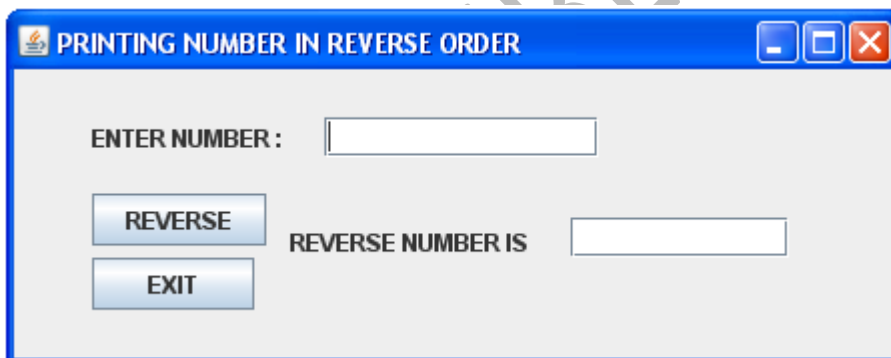
iii). Write a program to find out the Armstrong number : (for e.g. 153 = 1³ + 5³ + 3³)   [2]

7). i). Find out errors, if any and rewrite the code in yours answer sheet with underline the errors: [2]
    m=1;

```
n=0;
for ( ; m + n < 19 ; ++n)
System.out.println("Hello \n");
m = m + 10 ;
```

ii). While (ctr ! = 10) ; {   [2]
```
ctr = 1 ;
sum = sum + a ;
ctr = ctr + 1;
 }
```

8). i). What will be the output of the following program code :   [1$^{1/2}$]

```
public class Num  {
   int x;
   double y;
   void init()
   {
        x=0;
        y=0;
   }
   void read( int i, double j)
   {
         x = i;
         y = j;
   }
   void display()
   {
            System.out.println("x = > " + x + "\n");
            System.out.println("y = > " + y + "\n");
   }

   public static void main(String[] args[]) {
         Num obj1=new Num();
         Num obj2=new Num();
         obj1.init();
         obj2.init();
```

```
        obj1.read(15, 11.21);
        obj1.display();
        obj2.display();
    }
}
```

ii). What will be the output of the following program code :   [1$^{1/2}$]

```
    class Patt  {
        int Calc (int U)
        {
          if ( U%2 ==0)
                return u+10;
          else
                return U*2;
        }
        void Pattern ( char M, int B)
        {
                for ( int CNT =0; CNT<B; CNT++)
                        System.out.println ( Calc (CNT) + M );
                        System.out.println();
        }
    }
        public class Hello
        public static void main ( String[] args )  {
            Patt pt=new Patt();
            pt.Pattern('*',0);
            pt.Pattern('#', 4);
            pt.Pattern('@',3);
            }
    }
```

9). i). Rewrite the following '*if-else* ' segment using   '*switch-case*' statement :   [1$^{1/2}$]

```
    char code = 'A'
    if ( code = = 'A')
        System.out.println("Accountant");
```

```
if  ( ( code =='C' ) || (code = = 'G'))
        System.out.println("Grade IV");
if ( code = = 'F')
        System.out.println("Financial Advisor.");
```

ii). Rewrite the Corrected code for the following program, underline each correction (if any) :   [1¹ᐟ²]

```
void sum(int a, int b)
    {
         System.out.println(a + b);
        }
private void jButton1ActionPeformed(java.awt.Event.actionEvent evt)
    {
        int a, b;
        String str =  JOptionPane.showInputDialog("Enter the value of N");
        String a = Integer.parseInt(str);
        str= JOptionPane.showInputDialog("Enter the value of N");
        b=Integer.parseInt(str);
        int s = sum(a, b);
        System.out.println(s);
    }
```

Section : C

Q10. Write the answer of the following questions:

a). What is the difference between Primary Key and Unique Constraints?   [2]

b). Name any for data types in SQL.   [1.5]

c). What is 'ACID' property in MySQL?   [2]

d).Name two DDL and DML Commands.   [2]

e). What is Foreign Key. Give Example.   [2]

f). Define the term Degree.   [1]

g). Define the term Tuple.   [1]

Q11. a). Write a SQL Command to create table 'MEMBER' with following details : [1]

Column Name	Data Type	Size	Constraint
Mem_id	INT	4	Primary Key
Mem_Name	VARCHAR	20	NOT NULL
Address	VARCHAR	30	NOT NULL
Mdate	DATE		
Mem_Fee	Double	6,2	CHECK (Price greater than zero)

b). Write a Command to describe the structure of the above table. [1]

c). Add one more column in the above table as PHONE_NO of type INT and Size 10 [1]

d). Modify the column Address as char 25. [1]

e). Drop the Column Address. [1]

f). Change of the name of the column Mem_id to M_ID. [1]

g). Insert the record in the above table. [1]

1	Mr. Arjesk Kumar	Mumbai	21/11/2010	1550.50
2	Mr. Rakesh Kumar	Kolkata	28/2/2011	1875.80

h). Change the Address 'Kolkatta' as 'Bangalore' from Record 2 . [1]

i). Delete any one Record of the above table. [1]

j). Delete the Above table. [1]

Q12. Write the resulting output of the following: [1 x 0.5 = 3.5]

a). SELECT FLOOR (344.98)+CEIL(9876.89)

b). SELECT SUBSTR('ABS Public School', 1,3);

c). SELECT UPPER('ABS Public School');

d). SELECT 200+SQRT(144);|

e). SELECT MOD(ROUND(125.60, 1), 5);

f). SELECT MID('INFORMATICS PRACTICES', 3, 8);

g). SELECT LENGTH ('RAMESH SHARMA');

GAGAN KUMAR AGGARWAL

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