Final Examination in **INFORMATICS PRACTICS – Std. 11**   M. Marks : 70
25-2-2016   Time : 3 hrs.

Roll No: ☐☐

Total printed pages :	04
Total printed questions :	13

1. Write any two differences between the following:-   [12]
   a. jTextField and jTextArea
   b. Operator (=) and Operator (==)
   c. Multiple if else and switch case statements
   d. jRadioButton and jCheckBox controls
   e. AND operator and OR operator
   f. Unary and Binary operators

2. a. Why break is used in switch case statements?   [½]
   b. Write coding to make a jTextField un-editable on a JFrame?   [½]
   c. Which property makes the background color of a jLabel visible?   [½]
   d. What is the significance of default clause in switch case statement? [½]
   e. Which method is used to check whether the jTextArea is enabled or not. [½]
   f. Which operator is called ternary operator.   [½]

3. Write output of the following :-
   a) int I;   [1]
      System.out.print(I>1750?400:200);
      if the value of variable I is
              i.   2000
              ii. 500
   b) String S= jTextField1.getText( );   [2]
      int code= Integer.parseInt(S);
      switch (code)
              {
              case 1: System.out.println("Rainy");
              case 2: System.out.println("Winter");
              case 3: System.out.println("Summer");
                      break;
              case 4: System.out.println("Autumn");
                      break;
              default : System.out.println("Not a valid no");
              }
          Write output if the value entered in jTextField1 is
              I) 2   II) 3   III) 7

c) int m = 16;   [1]
    m = m+1;
    if (m < 15)
        jTextfield1 . setText (" " + (m));
    else
        jTextfield1 . setText (" " + (m + 15));

d) String s1=jTextField1.getText( )   [2]
    char ch=s1.charAt(0);
    switch(ch)
        {
        case 'g' :   System.out.print("Good");
        case 'b' :   System.out.print ("Bad");
             break;
        case 'e' :   System.out.print ("excellent");
             break;
        default :   System.out.print ("wrong choice");
        }
     if input done by the user in jTextField1 is :
    i) g   ii) b   iii) e

e) jTextArea1.setText("Live\nln Peace\tand harmony");   [1]

f) int I=10 , J=20;   [2]
String S1="WELCOME";
    System.out.print(""+I+J);
    System.out.print(S1.charAt(0));
    System.out.print(S1.charAt(5));

g) int a=15;   [3]
    System.out.println(a++);
    System.out.println(- -a);
    System.out.println(a- -);
    System.out.println(++a);
    System.out.println(a);

h) int sum, count;   [1]
    sum=20;
    count=120;
    sum=sum+(count++);
    System.out.println(sum);
    System.out.println(count);

i) y=6;   [1]
    x=++y+2*Y;
    System.out.println(Y);
    System.out.println(x);

4. Convert the following program codes

```
if (code == 1)
        Month = "January";
else if (code == 2)
        Month = "February";
else if (code == 3)
        Month = "March";
else if (code == 4)
        Month = "April";
else
        Month = "No Match";
```

b) **Conditional operator into if statement**   [2]

```
int A = 20;
jLablel2.setText(A>20? "Hello" : "Bye");
```

5. Evaluate the following Java expressions
   a. int a, b=2, k=4;   [1]
```
a=b*3/4+k/4+8-6+5%8+2-7/3;
System.out.println("The value is "+a);
```
   b. System.out.println(!(6==3)&&(4>7)||(5<2));   [1]
   c. int x;   [1]
```
x=(2*3/4-5/3.0)+7/3+8/6+4*3/5+2;
System.out.println("The value is"+x);
```
   d. System.out.println("2+2=" +2+2);   [2]
```
System.out.println("2+2="+(2+2));
System.out.println('A'+'D');
```

6. Correct the errors in the given program segment.
```
float a=Float.parseFloat(jTextField1.getText( ));                                           [5]
Switch(a);
[
Case 1:jLablel1.setText('One');
        Brake;
Case 1: jLabel1.setText("Two");
Case 2.5: jLabel1.setText("Two and Half");
Case default; jLabel1.setText("END");
]
```

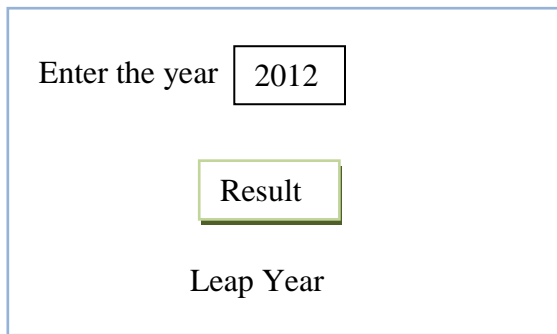7. a. Write coding for jButton1 "Paper Name" to print the paper name in jLabel2 by checking the paper
code entered in jTextField1 **(using switch case)**   [3]

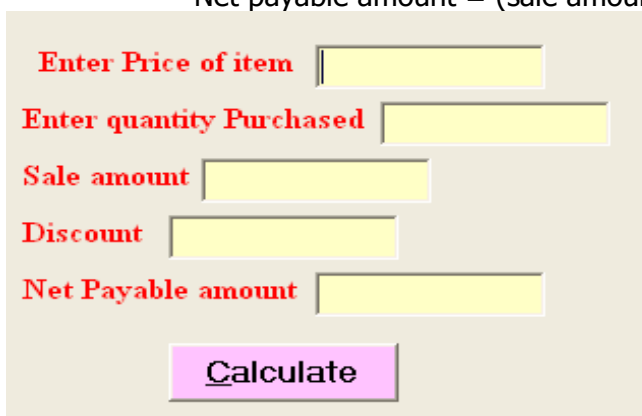| Paper Code	Paper Name
30	Economics Paper Code
54	Business Studies Paper Code
55	Accountancy Paper Code
65	Informatics Practices Paper C

b. Write coding for jButton2 "Clear" to clear the contents of jTextField1 and jLabel2.   [1]

8. Write coding for jButton1 (Result) to display the message "Leap Year" or "not a Leap Year" in Label
box after checking the year entered in jTextField1. **[USING CONDITIONAL OPERATOR]**[2]
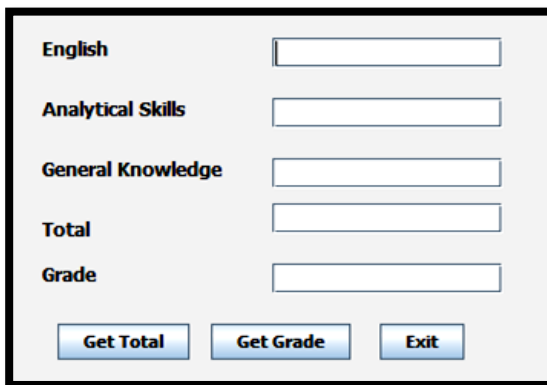   (hint: if the remainder of year divided by 4 is zero the year is a Leap Year)

Enter the year | 2012 |

Result

Leap Year

9. Write coding to calculate sale amount, discount and net payable amount:-   [3]
          Sale amount = price * quantity
          Discount = sale amount * 10.0/100
          Net payable amount = (sale amount − discount)

Enter Price of item | |

Enter quantity Purchased | |

Sale amount | |

Discount | |

Net Payable amount | |

Calculate

10. Aditya is a programmer at Edudel enterprises. He created the following GUI in Netbeans.

English	
Analytical Skills	
General Knowledge	
Total	
Grade	

Get Total　**Get Grade**　**Exit**

Help him to write code in java for the following:

a) To calculate Total and display in jTextfield4 on the click of jButton1 "Get total"　[2]
   Total = English + (Analytical skills * 2) + general knowledge

b) To calculate Grade obtained and display in jTextfield5 on the click of jButton2 "Get Grade". Criteria for
   Grade calculation in given below:　**[USING MULTIPLE IF ELSE]**[4]

Total Marks	Grade
> 80	A
>70 and <=80	B
> 60 and <=70	C
<=60	D

   a. To stop execution and exit from the application on the click of jButton3 "exit".　[1]

11. Write Java code that takes the cost of pencil from jTextField1 and number of pencils from jTextField2
     and calculates total amount as cost*number to be displayed in jTextField3 and 20% service tax out of
     total amount in jTextField4.**Design the frame also**.　[3]

12. Write coding to input sale amount and category. Calculate the discount given and net amount paid to the person based on the following conditions:- **[USING SWITCH CASE]**   [4]

Category	Discount (% of sale amount)
S	35%
A	25%
K	10%

Net amount = sale amount - discount

Enter Sale Amount	1000
Enter Category	K
Discount given	100.0
Net Amount	1100.0
	Calculate

13. Calculate Percentage from the marks entered in jTextFields and print a report of all the jTextFields
in jTextArea1 as shown below .   **[4]**

Roll number:	5
Name:	Arun
Class:	XI-E
English mark:	55
Accounts mark:	78
Economics mark:	65
Business study mark:	89
Informatics practices mark:	88

```
Roll No : 5          Name : Arun
        Class : XI-E
---------------------------------
  Eng  :    55
  Acc  :    78
  Eco  :    65
  BS   :    89
  IP   :    88
---------------------------------
        Percentage : 75%
```

Add   Exit

****