# St. Xavier's Sr. Sec. School
Delhi-54

Final Examination in **INFORMATICS PRACTICS – Std. 11**
25-2-2016

M. Marks : 70
Time : 3 hrs.

Total printed pages : 04
Total printed questions : 13

Roll No: | | |

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. [1]
```
int a, b=2, k=4;
a=b*3/4+k/4+8-6+5%8+2-7/3;
System.out.println("The value is "+a);
```

b. [1]
```
System.out.println(!(6==3)&&(4>7)||(5<2));
```

c. [1]
```
int x;
x=(2*3/4-5/3.0)+7/3+8/6+4*3/5+2;
System.out.println("The value is"+x);
```

d. [2]
```
System.out.println("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. [5]

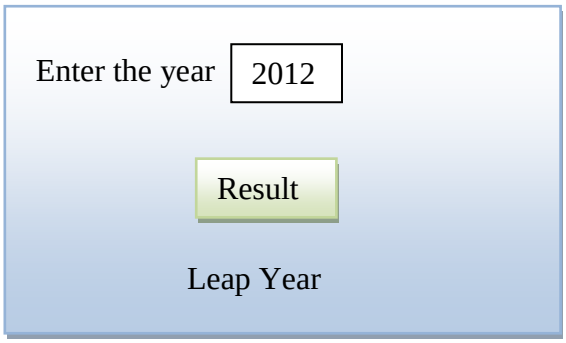
```
float a=Float.parseFloat(jTextField1.getText( ));
Switch(a);
[
Case 1:jLablel1.setText('One');
        Brake;
Case 1: jLabel1.setText("Two");
Case 2.5: jLabel1.setText("Two and Half");
Case default; jLabel1.setText("END");
]
```

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]

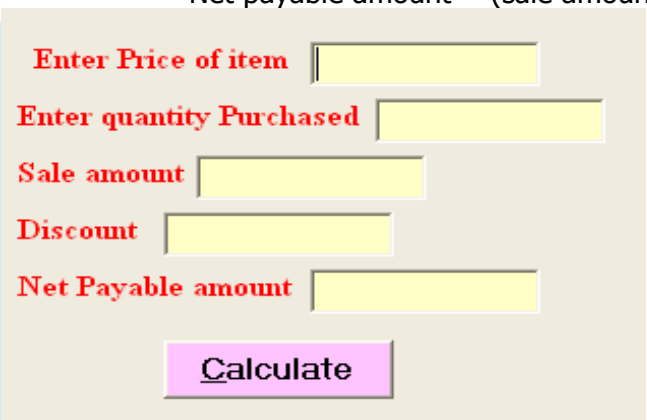
| **Paper Code** | **Paper Name** |
|---|---|
| 30 | Economics Paper Code |
| 54 | Business Studies Paper Code |
| 55 | Accountancy Paper Code |
| 65 | Informatics Practices Paper C |

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

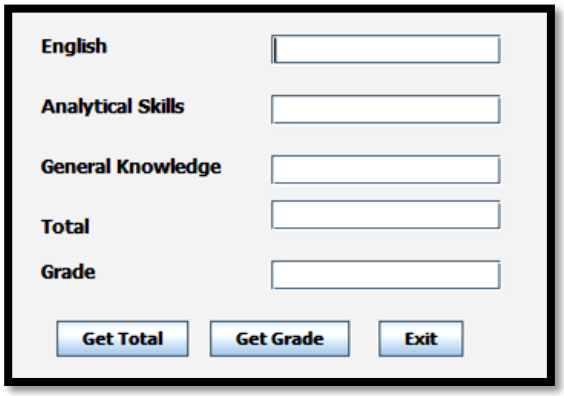
8. Write coding for jButton1 (Result) to display the message "Leap Year" or "not a Leap Year" in Label
box after checking the year entered in jTextField1. **[USING CONDITIONAL OPERATOR]**[2]
( hint: if the remainder of year divided by 4 is zero the year is a Leap Year)




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)



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




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 |

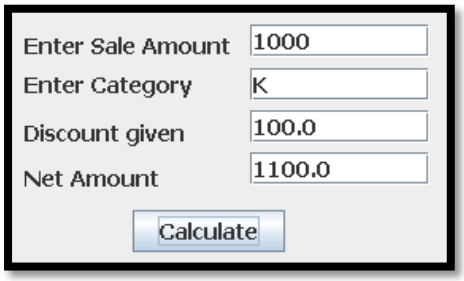
a. To stop execution and exit from the application on the click of jButton3 "exit". [1]

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]

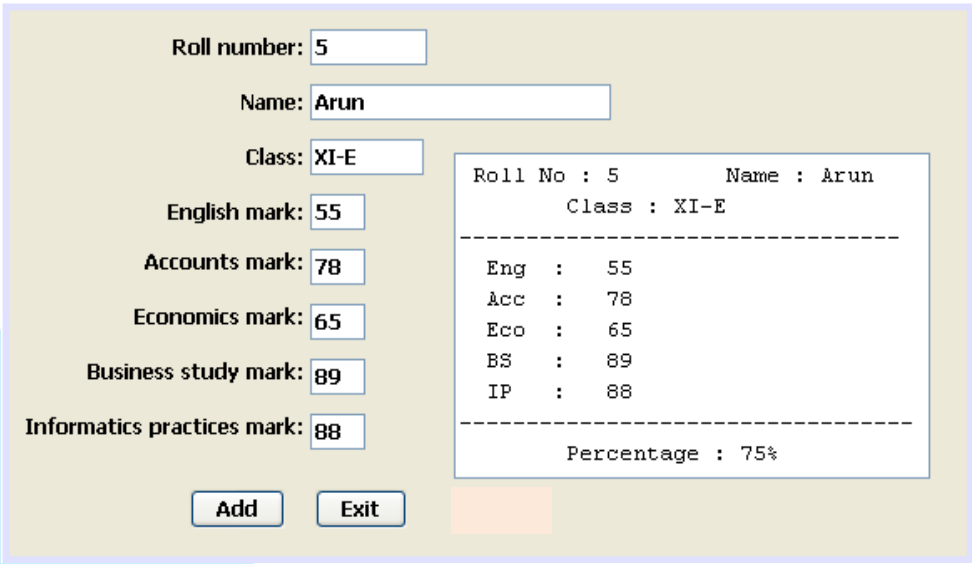
12. Write coding to input sale amount and category. Calculate the discount given and net amount paid to the person based on the following conditions:- **[USING SWITCH CASE]** [4]

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

Net amount = sale amount - discount




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

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