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MONTHLY EXAMINATION, JUNE 2015-16

CLASS :XII

MAX. MARKS : 50

SUBJECT : INFORMATICS PRACTICES

TIME :1 1/2 HRS

1. Give output for the following code segments.

10

- (a) `int a=5, b=10;`
`if(a>5)`
`if(b>5)`
`{System.out.println("b is"+b);}`
`else`
`{System.out.println("a is"+a);}`
- (b) `int m=100;`
`while(m>0)`
`{if(m<10)`
`break;`
`m=m-10;`
`}`
`System.out.println("m is"+m);`
- (c) `int age=24,Relation=6;`
`int ModiAge=Age-Relaxation;`
`if(ModiAge<18)`
`jOptionPane.showMessageDialog(Null,"Not Eligible");`
`else`
`jOptionPane.showMessageDialog(Null,"Eligible");`
- (d) What will be the value of P and Q after execution of the following code segment.
`int P,Q=0;`
`for(P=1;P<=4;P++)`
`{`
`Q+=P;`
`Q--;`
`}`
- (e) `int val1=5, val2=10;`
`for(int i=1;i<=3;i++)`
`{`
`System.out.println(" "+val1+++,"+--val2);`
`System.out.println(" "+val2--+"",+++val1);`
`}`

2. Correct errors in the following code segments and underline each correction.

10

- (a) `int k, I = 6;`
`k==I+6,`
`if (k=I)`
`{`
`jTextField1.getText("K And L are Unequal");`
`}`
`else`
`jTextField1.setText(K And L are equal);`

- (b) `do`
`{`

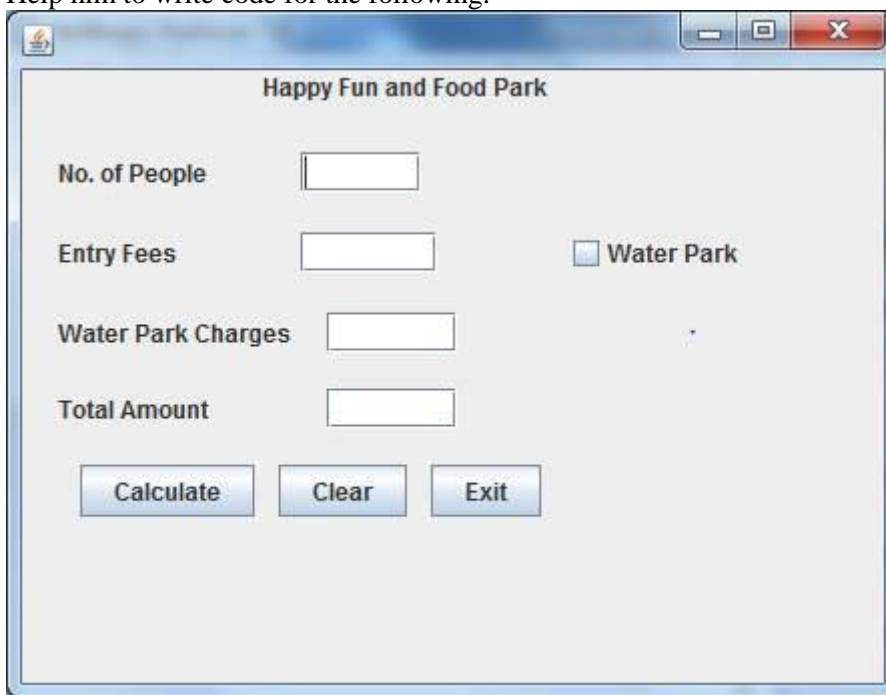
```
system.out.println(i++);  
} while (i<=10)
```

```
(c) integer P=1 ;  
integer C=1 ;  
FOR C=1 TO 10  
P = P+1  
If (P=5)  
P = 1;  
DISPLAY "P is equal to 5";  
ELSE  
DISPLAY "P is not equal to 5";  
C equal C PLUS 1;
```

```
(d) int i=5;j=10;  
while j>i  
{  
jTextField1.getText("j is greater");  
j--,++i;  
}  
JOptionPane.showMessageDialog("Error Corrected");
```

```
(e) Int a=3;  
a+=1;  
if(A>5  
jLabel1.setText(a);
```

3. Mr. Rangaswami works at a Recreation Park as a system analyst. He has created the following GUI. when a group arrives at the Recreation Park, the number of people in the group and whether the group wants to enjoy the Water park or not is entered. Entry fees is Rs. 500 per person. The person can choose to play at Water Park by selecting the checkbox. Rides of Water Park will cost Rs. 250 extra per person. Help him to write code for the following:



- (i) On the click of command button 'Calculate', textfield for 'Entry Fees' should display Entry Fees per person x Number of people. If 'Water park' checkbox is selected, textfield for 'Water Park Charges' should display Water Park Charges per person x Number of people. Textfield for 'Total Amount' should display sum of Entry Fees and Water Park Charges for all the people in the group. (3)
- (ii) Write Java code to clear all Textboxes on the click of 'Clear' button. (1)
- (iii) Write Java code to close the application on the click of 'Exit' button. (1)

4. Rewrite the following code using for loop. (4)

```
Int stripes=0;
While(stripes<=13)
    {if(stripes%2==2)
        {System.out.println("Colour code red");}
    Else
        {System.out.println("Colour code red");}
    System.out.println("New Stripe");
    stripe=stripe+1;
    }
```

5. What will be the content of JTextArea1 after execution of the following code. (2)

```
for(int i=2;i<=5;i++)
    JTextArea1.setText(JTextArea1.getText()+" "+Integer.toString(i*i));
```

6. Rewrite the following code using switch-case. (2)

```
if(ch=='E')
    Eastern++
if(ch=='S')
    southern++
if(ch=='W')
    Western++
if(ch=='N')
    Northern++
else
    Unknown++;
```

7. Convert the following code using if-else

```
int c=jComboBox.getSelectedIndex();
switch(c)
{
    case 0:
        amount=bill;
        break;
    case 1:
        amount=0.9*bill;
        break;
    case 2:
        amount=0.8*bill;
        break;
    default:
        amount=bill;
}
```

2

8. How many times the following loop gets executed? 2

```
int p=5;
int q=36;
while(p<=q)
    p+=6;
```

9. How many times the following loops get executed. Which is entry control and which is exit control loop?

```
int j=8,total=0;
while(j>1)
{
    total+=j;
    j-=2;
}
```

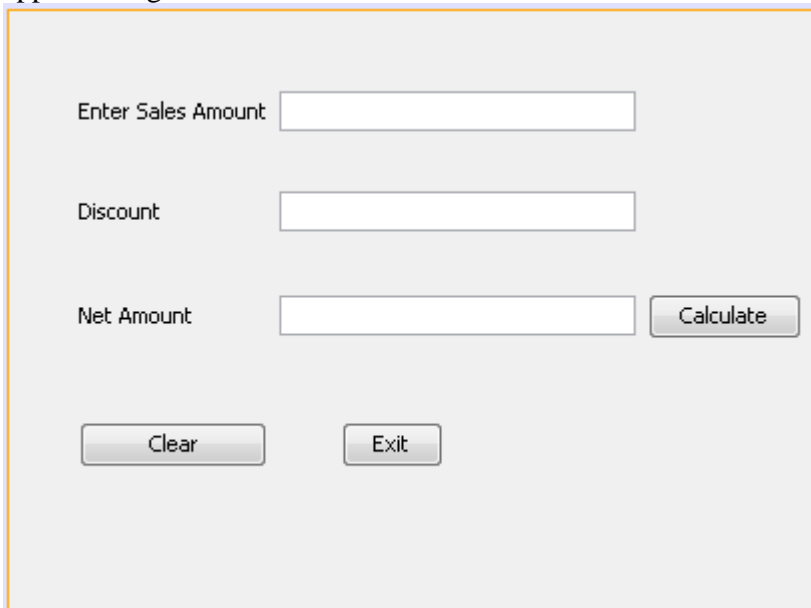
4

```
int j=8,total=0;
do
{
    total+=j;
    j-=2;
}while(j>1);
```

10. Explain how while and do-while differ from each other.

2

11. ABC Sales Enterprise wants developed a software to make the bill for their customer. GUI for the application given below.



Write the java statement for the following requirements.

a) Write the statement to make the text fields (txtDiscount) and txtNet non- editable. 2

b) Calculate discount and net amount for calculate button based on the following criteria. 3

Sales Amount	Discount
≥ 5000	5
≥ 3000	3
≥ 1000	1

c) Write the statement to clear all textfields when clicking the clear button, and for exit button the code for closing window. 2

ANSWER KEY

Q.NO.	ANSWER
1a	No output
b	0
c	
d	P=5 Q=6
e	5,9 9,7 7,7 7,9 9,5 5,11

2a	<pre>(a) int k, I = 6; <u>k=I+6,</u> if (k==1) { jTextField1.<u>setText</u>("K And L are Unequal"); } else jTextField1.setText(K And L are equal); <u>IP</u></pre>
b	<pre>(b) do { <u>System.out.println(i++);</u> } <u>while (i<=10);</u></pre>
c	<pre>(c) <u>int P=1 ;</u> <u>int C=1 ;</u> <u>for(C=1;C<=10;C++)</u> { <u>P = P+1;</u> <u>if (P==5)</u> {P = 1; <u>System.out.print("P is equal to 5"); }</u> else System.out.print("P is not equal to 5");<u>;</u>}</pre>
d	<pre>(d) int i=5;j=10; while(<u>j>i</u>) { jTextField1.getText("j is greater"); { j--; ++I; } <u>JOptionPane.showMessageDialog</u>(this,"Error Corrected");</pre>
e	<pre>(e) <u>int a=3;</u> <u>a+=1;</u> <u>if(a>5)</u> jLabel1.<u>setText(a);</u></pre>
3	Required code with proper syntax

4	<pre> for(int stripes=0;stripes<=13;stripes++) {if(stripes%2==2) {System.out.println("Colour code red");} Else {System.out.println("Colour code red");} System.out.println("New Stripe"); stripe=stripe+1; } </pre>
5	4 9 16 25
6	<pre> switch(ch) { case 'E': Eastern++ case 'S': southern++ case 'W': Western++ case 'N': Northern++ default: Unknown++; } </pre>
7	<pre> int c=jComboBox.getSelectedIndex(); if(c== 0) amount=bill; else if(c==1) amount=0.9*bill; else if(c== 2) amount=0.8*bill; else amount=bill; } </pre>
8	6 times
9	Both will execute 4 times. First loop is entry control and the second is exit control
10	While is entry control and d-while is exit control. Do-while ensures at least one execution.
11	Required code with correct syntax

BLUE PRINT

CHAPTER	PREDICT OUTPUT	ERROR CORRECTION	PROGRAMMING	THEORY	TOTAL
1	12	10	5	2	27
2	10	6	7		23
TOTAL					50