

CLASS XII

SAMPLE PAPER

INFORMATICS PRACTICES

MATHS

Q1 PREDICT THE OUTPUT OF THE FOLLOWING CODE SEGMENT.

(a) `Int a =5,b=10;`
`If(a>5)`
`If(b>5)`
`{`
`System.out.println("b="+b);`
`}`
`Else`
`System.out.println("a="+a);`

Ans=

(b) `Int a =8,b=8;`
`If(a>5)`
`If(b>5)`
`{`
`System.out.println("b="+b);`
`}`
`Else`
`System.out.println("a="+a);`

Ans=

(c) `Int a =15,b=20;`
`If(a>5)`
`If(b>5)`
`{`
`System.out.println("b="+b);`
`}`
`Else`
`System.out.println("a="+a);`

Ans=

(d) What will be the output of following code fragment if the value of ch is-

(i) A (ii) c (iii) d (iv) h (v) d

```
Switch(ch)
{
Case 'a': System.out.println("it is a");
Case 'b': System.out.println("it is b");
Case 'c': System.out.println("it is c");
Break;
Case 'd': System.out.println("it is d");
Break;
Default: System.out.println("not a b c d");
}
```

Ans=

(e) Give the output of the following code:

```
int m=100;
while(m>0)
{
if(m<10)
break;
m=m-10;
}
System.out.println("m is"+m);
```

Ans=

(f) Give the output of the following code:

```
int m=100;
while(true)
{
if(m<10)
continue;
m=m-10;
}
System.out.println("m is"+m);
```

Ans=

Q2. Short Question Answer-

(a) What are containers?

- (b) Write names of containers controls?
- (c) What do you mean by entry and exit control loop? With example
- (d) What will be the result of $a=5/3$ if a is as (i) int (II) float
Ans
- (e) What will be the value of $p=p*++j$ where j is 22 and p =3.
Ans
- (f) Which elements are needed to control a loop?
- (g) What is meant by implicit and explicit type conversion?
- (h) How are keywords different from identifiers?

Q3. Rewrite the program

- (a) If (a==0)
System.out.println("zero");
If (a==1)
System.out.println("one");
If (a==2)
System.out.println("two");
If (a==3)
System.out.println("three");

Write above program by switch and alternative code (using if)

- (b) int i=100;
While (i>0)
System.out.println(i--);
System.out.println("thank you");
Rewrite this program by do while statement
- (b) Int i=2;
Do

Ans=

```
{  
System.out.println(i);  
l+=2;  
}while(i<51);  
System.out.println("thank you");  
Rewrite by while loop.
```

Ans=

```
(c) int stripes=0;  
while( stripes <=13)  
{  
if(stripes %2==2)  
{  
system.out.println("color code red");  
}  
else  
{  
system.our.println("color code blue");  
}  
system.out.println("new stripe");  
stripes=stripes+1;  
}
```

Ans=

```
(d)Find the output :  
(a) int s=14  
If(s<20)  
System.out.print("under");  
else  
System.out.print("over");  
System.out.println("the limit");
```

Ans=

```
(b) int s=14  
If(s<20)  
System.out.print("under");
```

Ans=

```
else{  
System.out.print("over");  
System.out.println("the limit");}
```

```
(d) int i=1,j=0,n=0;  
while(i<4)  
{  
for(j=1;j<=i;j++)  
{  
n+=1;  
}  
i=i+1;  
}  
System.out.println(n);  
(e) int j=1,s=0;  
while(j<10)  
{  
System.out.print(j+"");  
s=s+j;  
j=j+j%3;  
}  
System.out.println("="+s);
```

Ans=

Ans=