

Question 1 (2.5 points)**What is output by the code below?**

```
int x = 10 / 3 ;  
System.out.print( x );
```

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Question 2 (2.5 points)**What is output by the code below?**

```
double x = (double)5 / 2;  
System.out.print( x );
```

- A. 3
- B. 2
- C. 2.5
- D. 7
- E. 0

Question 3 (2.5 points)**What is output by the code below?**

```
System.out.print( 10 + 5 * 2);
```

- A. 30
- B. 17
- C. 100
- D. 20
- E. 10

Question 4 (2.5 points)**What is output by the code below?**

```
System.out.print("a\tc" );
```

- A. a\tc
- B. a c
- C. atc
- D. a\c
- E. ac

Question 5 (2.5 points)

What is output by the code below?

```
public static void main(String args[ ] )  
{  
}
```

- A. there is no output
- B. main
- C. 0
- D. args
- E. string

Question 6 (2.5 points)

What is output by the code below?

```
String s = "123";  
if(s.equals("123"))  
    System.out.println("true");  
else  
    System.out.println("false");
```

- A. true
- B. false
- C. 123
- D. error
- E. 321

Question 7 (2.5 points)

What is output by the code below?

```
String s = "abcdef";  
System.out.println( s );
```

- A. abc
- B. abcdef
- C. abcde
- D. s
- E. adcd

Question 8 (2.5 points)

In Java, every program statement ends with a what ?

- A. {
- B. }
- C. ;
- D. \
- E. [

Question 9 (2.5 points)

What is output by the code below?

```
int x = 66;
if ( x == 67 )
    System.out.print("67" );
else
    System.out.println("!67");
```

- A. true
- B. 67
- C. !67
- D. false
- E. 66

Question 10 (2.5 points)

What is output by the code below?

```
System.out.println( 3 + " " + 3 );
```

- A. 6
- B. 3 3
- C. 6 6
- D. 3" "3
- E. 3

Question 11 (2.5 points)

What is output by the code below?

```
System.out.println( 3 + 6 );
```

- A. 6
- B. 0
- C. 3
- D. 9
- E. 12

Question 12 (2.5 points)

What is output by the code below?

```
System.out.println( "\""9" );
```

- A. 9
- B. "9
- C. \"9
- D. \
- E. none of these

Question 13 (2.5 points)

Which of the following Scanner methods can be used to read in a int?

- A. nextInt()
- B. nextDouble()
- C. nextString()
- D. nextFloat()
- E. next()

Question 14 (2.5 points)

Which of the following Scanner methods can be used to read in a double?

- A. nextInt()
- B. nextDouble()
- C. nextString()
- D. nextFloat()
- E. next()

Question 15 (2.5 points)

Which of the following Scanner methods can be used to read in a String?

- A. nextInt()
- B. nextDouble()
- C. nextString()
- D. nextFloat()
- E. next()

Question 16 (2.5 points)

What is output by the code below?

```
String r = "abcdefghi";  
System.out.println(r.charAt(3));
```

- A. a
- B. b
- C. c
- D. d
- E. e

Question 17 (2.5 points)

What is output by the code below?

```
String u = "abcdefghi";  
System.out.println(u.substring(3,5));
```

- A. d
- B. de
- C. c
- D. cd
- E. efgh

Question 18 (2.5 points)

What is output by the code below?

```
String v = "abcdefghi";  
System.out.println(v.indexOf("d"));
```

- A. 1
- B. 2
- C. 3
- D. 4
- E. 6

Question 19 (2.5 points)

What is output by the code below?

```
String w = "abcdefghi";  
System.out.println(w.indexOf("x"));
```

- A. -1
- B. 0
- C. 1
- D. 2
- E. 3

Question 20 (2.5 points)

Convert 1001110 (base 2) to base 10

- A. 72
- B. 74
- C. 76
- D. 78
- E. 80

Question 21 (2.5 points)

Convert 57 (base 10) to binary

- A. 110111
- B. 110110
- C. 111001
- D. 111011
- E. 111101

ANSWER: D

Question 22 (2.5 points)

How many modifier methods are there in class Check?

```
public class Check
{
    private int one, two, total;

    public void setNums(int n1, int n2)
    {
        one = n1;
        two = n2;
    }

    public void add()
    {
        one = 5;
        total = one + two;
        two = 5;
    }

    public String toString()
    {
        return "" + total;
    }
}
```

- A. 1
- B. 3
- C. 0
- D. 4
- E. 2

Question 23 (2.5 points)

What is output by the code below?

```
public class Check
{
    private int one, two, total;

    public void setNums(int n1, int n2)
    {
        one = n1;
        two = n2;
    }

    public void add()
    {
        one = 5;
        total = one + two;
        two = 5;
    }

    public String toString()
    {
        return "" + total;
    }
}
```

//code in the main of another class

```
Check test = new Check();
```

```
test.setNums(3,2);
```

```
test.add();
```

```
out.println(test);
```

- A. 10
- B. 7
- C. 5
- D. 8
- E. 2

Question 24 (2.5 points)

What is output by the code below?

```
public class Check
{
    private int one, two, total;

    public void setNums(int n1, int n2)
    {
        one = n1;
        two = n2;
    }

    public void add()
    {
        total = one + two;
        two = 5;
    }

    public String toString()
    {
        total = 2;
        return "" + total;
    }
}

//code in the main of another class
Check test = new Check();
test.setNums(-6,3);
test.add();
out.println(test);
```

- A. 4
- B. 2
- C. 5
- D. -1
- E. -3

Question 25 (2.5 points)

What is output by the code below?

```
public class Check
{
    private int fun;

    public void change()
    {
        fun = 5;
        int fun = 6;
    }

    public String toString()
    {
        return "" + fun;
    }
}
```

```
//client code
Check test = new Check();
test.change();
out.println(test);
```

- A. 0
- B. 6
- C. 5
- D. There is no output due to a syntax error.

Question 26 (2.5 points)

What is output by the code below?

```
System.out.println( Math.max(Math.min(9,5),11) );
```

- A. 0
- B. 16
- C. 11
- D. 14
- E. 15

Question 27 (2.5 points)

What is output by the code below?

```
System.out.println( Math.pow(3,2) );
```

- A. 6.0
- B. 7.0
- C. 8.0
- D. 9.0
- E. 27/0

Question 28 (2.5 points)

What is output by the code below?

```
System.out.println( Math.round(10.0 /4) );
```

- A. 2
- B. 3
- C. 3.0
- D. 2.0
- E. 2.5

Question 29 (2.5 points)

What is output by the code below?

```
String s = "abac-adae-bfbg-bhbi";  
int index = s.indexOf("-b");  
System.out.println(s.substring(index));
```

- A. abac-adae-bfbg-bhbi
- B. -bfbg-bhbi
- C. bfbg-bhbi
- D. bhbi
- E. there is no output

Question 30 (2.5 points)

What is the output of the code below?

```
String s = "dogfood";  
System.out.println( s.indexOf( "dog" ) );
```

- A. 3
- B. 2
- C. -1
- D. 4
- E. 0

Question 31 (2.5 points)

What is the output of the code below?

```
String s = "dogfood";  
System.out.println( s.substring(2,5) );
```

- A. food
- B. dog
- C. dogs
- D. ood
- E. gfo

Question 32 (2.5 points)

What is returned by the call `go(-3)` ?

```
public static String go( int a )  
{  
    if(a>=0)  
    {  
        if(a>=1)  
            return "1";  
        return "2";  
    }  
    return "3";  
}
```

- A. 1
- B. 2
- C. 3
- D. 12
- E. 23

Question 33 (2.5 points)

What is the output of the code below?

```
int a = 40;
if(a>=50)
{
    out.print("1");
    if(a>=30)
        out.print("2");
}
out.print("3");
```

- A. 123
- B. 12
- C. 3
- D. 1
- E. 23

Question 34 (2.5 points)

What is returned by the call `go(2)` ?

```
public static String go( int a )  
{  
    if(a>=0)  
    {  
        if(a>=1)  
            return "1";  
        return "2";  
    }  
    return "3";  
}
```

- A. 1
- B. 2
- C. 3
- D. 12
- E. 13

Question 35 (2.5 points)

What is returned by the call `go(50,50)?`

```
public static String go(int x, int z)
{
    String s = "";
    if(x >= 50)
        if(z > 55)
            s += "def";
    s += "fun";
    return s;
}
```

- A. def
- B. fundef
- C. fun
- D. deffun
- E. 50

Question 36 (2.5 points)

What values will be stored in a and b after execution of the following program segment?

```
int a = 7, b = 11;
if(a<b){
    if(a < 20)
        a *= 2;
    else
        a = b-a;
    b = b/3;
}
else {
    if(b < 15)
        b = b*2+3;
    else
        b = a-b+15;
    a = a/4;
}
```

- A. a =16 b = 4
- B. a =14 b = 3
- C. a =18 b = 5
- D. a =12 b = 3
- E. a =10 b = 7

Question 37 (2.5 points)

What is output by the code below?

```
int a = 50, b = 24;
if( a > 40)
    if( b > 50)
        out.print("def");
    else if( b > 35)
        out.print("xyz");
    else if( b > 20)
        out.print("ghi");
out.print("fun");
```

- A. ghifun
- B. deffun
- C. def
- D. ghi
- E. fun

Question 38 (2.5 points)

What is output by the code below?

```
int c=40, d=30;
if( c > 30)
    if( d > 10)
        out.print("go");
    else
        out.print("run");
else
    out.print("fly");
out.print("nogo");
```

- A. gonogo
- B. run
- C. fly
- D. go
- E. nogo

Question 39 (2.5 points)

What is output by the code below?

```
int a = 105, b = 40;
```

```
if( a > 90)
```

```
    if( b > 100)
```

```
        out.print("go");
```

```
    else if( b > 90)
```

```
        out.print("it");
```

```
    else
```

```
        out.print("up");
```

```
out.print("on");
```

- A. goon
- B. itupon
- C. iton
- D. upon
- E. on

Question 40 (2.5 points)

What is output by the code below?

```
int j = 11/2;
switch(j)
{
    case 5:j++;break;
    case 6:j++;break;
    case 7:j++;break;
}
System.out.println(j);
```

- A. 5
- B. 6
- C. 7
- D. 8
- E. 0

Loading [Contrib]/a11y/accessibility-menu.js