

<b>Started on</b>	Wednesday, 4 February 2026, 4:26 PM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 4 February 2026, 4:39 PM
<b>Time taken</b>	13 mins 11 secs
<b>Marks</b>	17.00/20.00
<b>Grade</b>	<b>85.00</b> out of 100.00

**Question 1**

Complete

Mark 1.00 out of  
1.00

What is the output of the following code?

3: byte a = 40, b = 50;  
4: byte sum = (byte) a + b;  
5: System.out.println(sum);

- a. 90
- b. The code will not compile because of line 4.
- c. An undefined value.
- d. 50
- e. 40

**Question 2**

Complete

Mark 1.00 out of  
1.00

What is the output of the following code snippet?

3: boolean x = true, z = true;  
4: int y = 20;  
5: x = (y != 10) ^ (z=false);  
6: System.out.println(x+, "+y+, "+z);

- a. The code will not compile because of line 5.
- b. false, 20, true
- c. false, 20, false
- d. true, 20, false
- e. false, 20, true
- f. true, 10, true

**Question 3**

Complete

Mark 1.00 out of  
1.00

Which of the following are true? (Choose all that apply)

```
public class Bunny {  
    public static void main(String[] args) {  
        Bunny bun = new Bunny();  
    } }
```

- a. main is a class.
- b. Bunny is a reference to an object.
- c. bun is a class.
- d. Bunny is a class.
- e. bun is a reference to an object.
- f. main is a reference to an object.
- g. None

**Question 4**

Complete

Mark 0.00 out of  
1.00

Which statements about switch are correct?

- a. Cases must be constant expressions.
- b. switch can take String values.
- c. switch requires a default case.
- d. break is necessary to prevent fall-through.

**Question 5**

Complete

Mark 1.00 out of  
1.00

What is the output of the following code?

```
1: public class TernaryTester {  
2:     public static void main(String[] args) {  
3:         int x = 5;  
4:         System.out.println(x > 2 ? x < 4 ? 10 : 8 : 7);  
5:     } }
```

- a. 5
- b. 8
- c. 7
- d. 4
- e. 10
- f. The code will not compile because of line 4.

**Question 6**

Complete

Mark 1.00 out of  
1.00

Given:

```
3. public class Wind {  
4.     public static void main(String[] args) {  
5.         foreach:  
6.             for(int j=0; j<5; j++) {  
7.                 for(int k=0; k< 3; k++) {  
8.                     System.out.print(" " + j);  
9.                     if(j==3 && k==1) break foreach;  
10.                    if(j==0 || j==2) break;  
11.                }  
12.            }  
13.        }  
14.    }
```

What is the result?

- a. Compilation fails
- b. 0 1 1 1 2 3 3
- c. 0 1 1 1 2 3 3 4 4 4
- d. 1 1 1 3 3
- e. 0 1 2 3
- f. 1 1 1 3 3 4 4 4

**Question 7**

Complete

Mark 1.00 out of  
1.00

What is the output of the following code snippet?

```
3: int x = 4;  
4: long y = x * 4 - x++;  
5: if(y<10) System.out.println("Too Low");  
6: else System.out.println("Just right");  
7: else System.out.println("Too High");
```

- a. Just Right
- b. Compiles but throws a NullPointerException.
- c. The code will not compile because of line 7
- d. Too Low
- e. The code will not compile because of line 6.
- f. Too High

**Question 8**

Complete

Mark 0.00 out of  
1.00

Given the following class,

which of the following lines of code can replace `INSERT CODE HERE` to make the code compile? (Choose all that apply)

```
public class Price {  
    public void admission() {  
        INSERT CODE HERE  
        System.out.println(amount);  
    } }
```

- a. int amount = 0xE;
- b. int amount = 9L;
- c. int amount = 1\_2\_;
- d. double amount = 0xE;
- e. int amount = 0b101;
- f. None
- g. double amount = 1\_2\_.0\_0;

**Question 9**

Complete

Mark 1.00 out of  
1.00

Given:

```
class Hexy {  
    public static void main(String[] args) {  
        Integer i = 42;  
        String s = (i<40)?"life": (i>50)? "universe": "everything";  
        System.out.println(s);  
    }  
}
```

What is the result?

- a. Compilation fails
- b. life
- c. universe
- d. null
- e. everything
- f. An exception is thrown at runtime

**Question 10**

Complete

Mark 1.00 out of  
1.00

How many times will the following code print "Hello World"?

```
3: for(int i=0; i<10 ; ) {  
4:   i = i++;  
5:   System.out.println("Hello World");  
6: }
```

a. The code will not compile because of line 3.  
 b. The code will not compile because of line 5.  
 c. 10  
 d. 9  
 e. The code contains an infinite loop and does not terminate.  
 f. 11

**Question 11**

Complete

Mark 1.00 out of  
1.00

Given:

```
class Fork {  
    public static void main(String[] args) {  
        if(args.length == 1 | args[1].equals("test")) {  
            System.out.println("test case");  
        } else {  
            System.out.println("production " + args[0]);  
        }  
    }  
}
```

And the command-line invocation:

```
java Fork live2
```

What is the result?

- a. test case  
 b. An exception is thrown at runtime  
 c. production live2  
 d. Compilation fails  
 e. test case live2

**Question 12**

Complete

Mark 1.00 out of  
1.00

What will be the output of the following code?

```
int a = 5;  
System.out.println(a++ + ++a);
```

- a. 12  
 b. Compilation error  
 c. 13  
 d. 11

**Question 13**

Complete

Mark 1.00 out of  
1.00

What is the output of the following code snippet?

```
3: boolean keepGoing = true;  
4: int result = 15, i = 10;  
5: do {  
6:   i--;  
7:   if(i==8) keepGoing = false;  
8:   result -= 2;  
9: } while(keepGoing);  
10: System.out.println(result);
```

- a. 11
- b. 7
- c. 10
- d. The code will not compile because of line 8.
- e. 15
- f. 9

**Question 14**

Complete

Mark 0.00 out of  
1.00

Given:

```
4. public class SpecialOps {  
5.   public static void main(String[] args) {  
6.     String s = "";  
7.     Boolean b1 = true;  
8.     Boolean b2 = false;  
9.     if((b2 = false) | (21%5) > 2) s += "x";  
10.    if(b1 || (b2 = true))      s += "y";  
11.    if(b2 == true)           s += "z";  
12.    System.out.println(s);  
13.  }  
14. }
```

Which are true? (Choose all that apply.)

- a. z will be included in the output
- b. An exception is thrown at runtime
- c. y will be included in the output
- d. x will be included in the output
- e. Compilation fails

**Question 15**

Complete

Mark 1.00 out of  
1.00

What is the output of the following code snippet?

```
3: int x = 0;  
4: String s = null;  
5: if(x == s) System.out.println("Success");  
6: else System.out.println("Failure");
```

- a. Failure
- b. Success
- c. The code will not compile because of line 4.
- d. The code will not compile because of line 5.

**Question 16**

Complete

Mark 1.00 out of  
1.00

What is the output of the following code snippet?

```
3: int x1 = 50, x2 = 75;  
4: boolean b = x1 >= x2;  
5: if(b = true) System.out.println("Success");  
6: else System.out.println("Failure");
```

- a. Success
- b. The code will not compile because of line 4.
- c. The code will not compile because of line 5.
- d. Failure

**Question 17**

Complete

Mark 1.00 out of  
1.00

Given:

```
1. class Loopy {  
2.     public static void main(String[] args) {  
3.         int[] x = {7,6,5,4,3,2,1};  
4.         // insert code here  
5.         System.out.print(y + " ");  
6.     }  
7. }
```

Which, inserted independently at line 4, compiles? (Choose all that apply.)

- a. for(int y : x) {
- b. for(int y=0, int z=0; z<x.length; z++) { y = x[z];
- c. for(x : int y) {
- d. int y = 0; for(y : x) {
- e. int y = 0; for(int z=0; z<x.length; z++) { y = x[z];
- f. for(int y=0, z=0; z<x.length; z++) { y = x[z];

**Question 18**

Complete

Mark 1.00 out of  
1.00

Given:

```
3. public class Ebb {  
4.     static int x = 7;  
5.     public static void main(String[] args) {  
6.         String s = "";  
7.         for(int y = 0; y < 3; y++) {  
8.             x++;  
9.             switch(x) {  
10.                 case 8: s += "8 ";  
11.                 case 9: s += "9 ";  
12.                 case 10: { s+= "10 "; break; }  
13.                 default: s += "d ";  
14.                 case 13: s+="13 ";  
15.             }  
16.         }  
17.         System.out.println(s);  
18.     }  
19.     static { x++; }  
20. }
```

What is the result?

- a. 9 10 10 d 13
- b. 8 9 10 10 d 13
- c. 9 10 10 d
- d. 9 10 d
- e. Compilation fails
- f. 8 9 10 9 10 10 d 13
- g. 8 9 10 d

**Question 19**

Complete

Mark 1.00 out of  
1.00

What is the result of the following code snippet?

```
3: final char a = 'A', d = 'D';
4: char grade = 'B';
5: switch(grade) {
6:   case a:
7:   case 'B': System.out.print("great");
8:   case 'C': System.out.print("good"); break;
9:   case d:
10:  case 'F': System.out.print("not good");
11: }
```

- a. great
- b. greatgood
- c. The code will not compile because of line 3.
- d. The code will not compile because of line 6.
- e. The code will not compile because of lines 6 and 9.

**Question 20**

Complete

Mark 1.00 out of  
1.00

What will be the output of the following program?

```
int a = 10, b = 20, c = 30;
System.out.println(a > b ? a : b > c ? b : c);
```

- a. 20
- b. 30
- c. 10
- d. Compilation error