

Module 4 practice quiz on IF statements

TOTAL POINTS 8

1. What is the truth value of the following expression?

1 / 1 point

`(-8 >= 9) || (14 > 2)`

- ☒ True
☐ False

✓ Correct

2. What is the truth value of the following expression?

1 / 1 point

`(5 > 0) && (7 > 0)`

- ☒ True
☐ False

✓ Correct

3. What is the truth value of the following expression?

1 / 1 point

`(8 != 7) && (4 > 4)`

- ☐ True
☒ False

✓ Correct

4. What is the truth value of the following expression?

1 / 1 point

`!(8 >= 2*3) || (7 >= 11)`

- ☐ True
☒ False

✓ Correct

5. What is the output for the following code segment?

1 / 1 point

```
1  int x = 10;
2  int y = 27;
3  if (x > y){
4      x = x + y;
5  }
6  Out.println(x);
```

- ☐ 27
- ☐ 20
- ☐ 37
- ☒ 10

✓ Correct

6. What is the output of the following code?

1 / 1 point

```
1  int age = 23;
2  if (age >= 55){
3      Out.println("Your cost is discounted by 10%");
4  }
5  if (age >= 21){
6      Out.println("You can purchase a wristband for $10");
7  }
8  if (age >= 16){
9      Out.println("Your cost is discounted by 15%");
10 }
11 else{
12     Out.println("You may enter for free");
13 }
```

- ☐ 1 You can purchase a wristband for \$10
- ☒ 1 You can purchase a wristband for \$10
2 Your cost is discounted by 15%
3
- ☐ 1 Your cost is discounted by 10%
2 You can purchase a wristband for \$10
3 Your cost is discounted by 15%
4 You may enter for free
- ☐ 1 You can purchase a wristband for \$10
2 Your cost is discounted by 15%
3 You may enter for free

✓ Correct

7. What is the output of the following code?

1 / 1 point

```
1  int x = -7;
2
3  if(x > 0){
4      Out.println(x + 10);
5  }
6  else if (x == 0){
7      Out.println(x);
8  }
9  else{
10     Out.println(x - 10);
11 }
```

- ☐ -7
- ☐ 3
- ☐ 3
- ☒ -17
- ☐ -7

✓ Correct

8. What value of x would produce the desired output seen below?

1 / 1 point

```
1  if (x > 10){
2      Out.println("Above average");
3      if (x > 20){
4          Out.println("Should continue with the program");
5      }
6      else {
7          Out.println("May want to continue with the program");
8      }
9  }
10 }
```

Desired output:

```
1  Above average
2  May want to continue with the program
```

- ☒ 16
- ☐ 23
- ☐ 7
- ☐ -4

✓ Correct