Selection Test 1

1. Which of the following can replace /* condition */ so that the **int** variables num1 and num2 can be compared to see if they both contain the same value.

```
if ( /* condition */ )
    System.out.println("They are equal");
```

A) num1 = num2
B) num1 == num2
C) num1.equals(num2)
D) num1 != num2

2. Which of the following can replace /* condition */ so that the **String** variables str1 and str2 can be compared to see if they are equal (equal means they contain the same letters in the same order).

```
if ( /* condition */ )
    System.out.println("They are equal");
```

A) str1 == str2
B) str1 = str2
C) str1.equals(str2)
D) str1 != str2

3. Which of the following can replace /* expression */ so that **only** the phrase "happy" will be displayed.

```
int a = 5;
int b = 10;

if(a > b)
    System.out.println("sad");

/* expression */
    System.out.println("happy");
```

A) if (a < b)
B) else
C) if (a == b)
D) both A and B

4. Which of the following can replace /* condition */ so that the string "computer" is displayed?

```
String str1 = "cow";
String str2 = "horse";
if (  /* condition */  )
    System.out.println("computer");
```

A) str1.equals(str2)
B) ! str1.equals(str2)
C) str1 == str2
D) str1 <> str2

5. What is output by the following code segment?

```
int num1 = 5;
int num2 = 7;
if ( num1 < num2 )
{
    if ( num1 + num2  < 10 )
        System.out.print("one");
    else
        System.out.print("two");
}
System.out.println("three");
```

A) one
B) two
C) onethree
D) twothree

6. What is output by the following code segment?

```
int num1 = 5;
int num2 = 7;
if ( num1  <= 5 && num2 > 7 )
{
    if ( num1 == 7 || num2 == 7 )
        System.out.print("one");
    else
        System.out.print("two");
}
else
    System.out.println("three");
```

A) one
B) two
C) onethree
D) three

7. What is output by the following code segment?

```
int num = 86;

if ( num >= 90 && num <= 100 )
    System.out.println("one");
else if ( num >= 80 && num < 90)
    System.out.println("two");
else if ( num >= 70 && num < 80 )
    System.out.println("three");
else
    System.out.println("four");
```

A) one
B) two
C) three
D) four

8. What is output by the following code segment?

```
int a = 3;
int b = -2;

if ((a > 0) && (b > 0))
{
    if (a > b)
        System.out.println("A");
    else
        System.out.println("B");
}
else if ((b < 0) || (a < 0))
    System.out.println("C");
else
    System.out.println("D");
```

A) A
B) B
C) C
D) D