while/do_while Test 1

1. Look at the following code segment.

```
int count = 1;
while (  /* condition */  )
{
   System.out.print(count + " ");
   count++;
}
```

Which of the following replaces /* condition */ so that the code displays the following numbers:

1 2 3 4 5 6 7 8 9 10

A) count <= 10
B) count < 11
C) count >= 10
D) both A and B

2. Look at the following code segment.

```
int count = 1;
while (count < 30)
{
   System.out.print(count + " ");
   /* expression */
}
```

Which of the following replaces /* expression */ so that the code displays all the odd numbers between 1 and 30.

A) count ++;
B) count+2;
C) count+=2;
D) count++2;

3. What is output by the following code segment?

```
int count = 1;
int sum = 0;
while (count <= 3)
{
    sum += count;
    count++;
}
System.out.println(sum);
```

A) 3
B) 5
C) 6
D) 7

4. What is output by the following code segment?

```
int count = 1;
int num = 0;
while (count <= 10)
{
    if (count > 5)
        num++;
    count++;
}
System.out.println(num);
```

A) 15
B) 10
C) 5
D) 0

5. Look at the following code segment?

```
String str = "";
int count = 0;
while ( /* condition */ )
{
    System.out.print("Enter a word-->");
    str = keyboard.nextLine();
    count++;
}
```

Which of the following replaces /* condition */ so that the code will allow a user to input strings until the word "stop" is entered.

A) str == "stop"
B) str != "stop"
C) str.equals("stop")
D) !str.equals("stop")

6. What value is output by the following code segment?

```
int count = 0;
do
{
    count++;
}
while (count > 3);
System.out.println(count);
```

E) 0
F) 1
G) 2
H) 3

7. The following code segment is supposed to display the numbers from 1 to 10 but it does not work properly.

```
int count = 1;
do
{
    System.out.println(count);
}
while (count <= 10);
```

Which of the following best describes the reason for the error?

A) The loop condition is always false.
B) The loop control variable was not incremented.
C) The loop condition should not contain an equal sign.
D) The loop control variable was not initialized.