

while Test

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;
while (count > 3)
{
    count++;
}
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;
while(count<= 10)
{
    System.out.println(count);
}
```

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.