

while/do_while Test 2

1. Look at the following code segment.

```
int count = 0;
while ( /* condition */ )
{
    System.out.print(count + " ");
    count++;
}
```

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

0 1 2 3 4 5

- A) `count >= 5`
 - B) `count > 5`
 - C) `count <= 5`
 - D) `count < 5`
2. Look at the following code segment.

```
int count = 0;
while (count <= 20)
{
    System.out.print(count + " ");
    /* expression */
}
```

Which of the following replaces `/* expression */` so that the code displays all the even numbers between 0 and 20.

- 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 < 5)
{
    sum += count;
    count++;
}
System.out.println(sum);
```

- A) 1
- B) 6
- C) 10
- D) 16

4. What is output by the following code segment?

```
int count = 1;
int num = 0;
while (count <= 8)
{
    if (count <= 4)
        num++;
    count++;
}
System.out.println(num);
```

- A) 8
- B) 6
- C) 4
- D) 3

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 "exit" is entered.

- A) `str.equals("exit")`
- B) `!str.equals("exit")`
- C) `str == "exit"`
- D) `str != "exit"`

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

```
int count = 0;
do
{
    count++;
}
while (count > 5);
System.out.println(count);
```

- A) 0
 - B) 4
 - C) 1
 - D) 5
7. The following code segment is supposed to display the numbers from 1 to 20 but it does not work properly.

```
int count = 1;
do
{
    System.out.println(count);
}
while (count <= 20);
```

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

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