

Name: _____

Score: _____

Study the questions before the test is given

1. (5 points) Write a for loop that sums the numbers between 0 and 99 inclusive.

2. (5 points) Given the following code fragment,

```
cout << 'A';

for (loopCount = 0; loopCount < 3; loopCount++)
    cout << 'B';

cout << 'C';
```

The result will be:

- A. the output AC
- B. the output ABC
- C. the output ABBBC
- D. a compile-time error
- E. an infinite loop

3. (5 points) True or False? The statement

```
switch (n)
{
    case 8 : alpha++; break;
    case 3 : beta++; break;
    default: gamma++; break;
}
```

is equivalent to the following statement.

```
if (n == 8)
    alpha++;
else if (n == 3)
    beta++;
else
    gamma++;
```

- A. True
 - B. False
4. (5 points) Which of the following is not a C++ looping control structure?
- A. while
 - B. for
 - C. do-while
 - D. switch
5. (5 points) What is the output of the following code fragment if the input value is 'G'?

```
cin >> inputChar;
switch (inputChar)
{
    case 'A' : cout << 4; break;
    case 'Q' : cout << 3; break;
    case 'G' :
    case 'M' : cout << 2; break;
    default   : cout << 1;
}
```

6. (5 points) Write a For loop that is equivalent to the following While loop. (All variables are of type int.)

```
count = -5;
while (count <= 15)
{
    sum = sum + count;
    count++;
}
```

7. (5 points) What is the output of the following code fragment? (All variables are of type int.)

```
n = 1;
for (loopCount = 1; loopCount < 3; loopCount++)
while (n <= 4)
n = 2 * n;
cout << n << endl;
```

8. (5 points) After execution of the code fragment

```
char ch = 'C';
int alpha = 3;

switch (ch)
{
```

```

    case 'A' : alpha = alpha + 10; break;
    case 'B' : alpha = alpha + 20; break;
    case 'C' : alpha = alpha + 30;
}

```

what is the value of alpha?

9. (5 points) What is the output of the following code fragment? (beta is of type int.)

```

beta = 5;
do
{
    switch (beta)
    {
        case 1 : cout << 'R'; break;
        case 2 :
        case 4 : cout << 'O'; break;
        case 5 : cout << 'L';
    }
    beta--;
} (beta > 1);
cout << 'X';

```

10. (5 points) What is the output of the following code fragment ?

```

loopCount = 0;
cout << 'G';

while (loopCount < 4)
{
    if ( loopCount = 3 )
        cout << 'o';
    loopCount++;
}

cout << 'd';

```

The result will be:

- A. the output God
- B. the output Good
- C. the output Goood
- D. the output Gooood
- E. an infinite loop