CSCI 2170 Quiz 2 (30 pts) Name _____ <Questions on both sides>

1. (10 pts, 2 pt each) Multiple Choice Questions:

a. What will the following code display?

```
int x = 0;
while (x < 5)
{
    cout << x << " ";
    x++;
}
```

a. `0 1 2 3 4 5`
b. `0 1 2 3 4`
c. This is an infinite loop

b. What is the output of the following code segment?

```
n = 1;
while (n <= 5)
    cout << n << '  ';
    n++;
```

a. `1 2 3 4 5`
b. `1 1 ...` and on forever
c. `1 2 3 4 5 6`
d. `1 2 3 4`
e. `2 3 4 5`

c. How many times will the following loop display "**`Looping again!`**"?

```
for (int i = 0; i <= 20; i++)
     cout << "Looping again!" << endl;
```

a. `20`
b. `19`
c. `21`
d. an infinite number of times

d. How many times will the following loop display "**`Looping!`**"?

```
for (int i = 20; i > 0; i--)
     cout << "Looping!" << endl;
```

a. `20`
b. `19`
c. `21`
d. an infinite number of times

e. What is the output of the following code segment?

```
n = 10;
do{
    cout << n << '  ';
    n=n-1;

}
while (n > 5);
```

a. `10 9 8 7 6`
b. `9 8 7 6`
e. This is an infinite loop

2. **(10 pts) Write a C++ do-while loop to ask the user to enter a date as <u>month and year</u> values. Continue to ask the date entered is invalid. A valid date should have a month value between 1 and 12 inclusive and the year value between 1 and 2020 inclusive.**

3. **(10 pts) Write a C++ code to count the number of words in a sentence. Assuming the sentence is input by the user and stored in a string type variable "text". The words in the sentence are separated by a single space.**

```
string text;
int count;
// declare other variables as needed


cout << "Enter a line of text:";
getline(cin, text);

// complete the code below to find the number of words in "text"; use "count" to count the number of
words
```