CSC 108 Quiz # 3 Name Answer Key

Multiple Choice: /* 2 points each */

C 1. For what range of values of the variable `x` would the body of this Processing `for` statement be executed?

```
for (int x = 0; x < 20; x++) {
    println(x);
}
```

A) 0 to 20 B) 1 to 20 C) 0 to 19 D) 0 to 21 E) None of these

A 2. How many circles are drawn by this code?

```
for (int x = 90; x <= 10; x = x - 10) {
    ellipse( x, 100, 5, 5);
}
```

A) 0 B) 1 C) 9 D) 10 E) None of these

Short Answer:

1. Write a for loop that prints all of the multiples of 7 from 49 up to 777 on separate lines in the Console. /* 4 points */

```
for ( int num = 49; num <= 777; num = num + 7 ) {
  println( num );
}
```

2. What would be printed by the following Processing code? /* 3 points */

```
for (int k = 1; k <= 3; k++) {
    println("hi");
    println("bye");
}
println( "done" );
```

hi
bye
hi
bye
hi
bye
done

3. What would be printed by the following Processing code? /* 3 points */

```
int total = 0;
total = total + 3;
total = total + 11;
total = total + 8;
print("total = ");
println( total );
```

total = 22

4. What would be printed by the following Processing code? /* 3 points */

```
int total = 0;
total = +3;
total = +11;
total = +8;
print("total = ");
println( total );
```

total = 8

Short Answer (continued):

5. What is printed by the following code for each given pair of values of a and b?: /* 1 point for each part */

```
int sum = a;
for (int k = 1; k <= b; k++) {
    sum = sum + a;
}
print("sum = ");
println(sum);
```

a) a = 7 and b = 2

sum = 21

c) a = 50 and b = 0

sum = 50

b) a = 4 and b = 3

sum = 16

d) a = 0 and b = 5

sum = 0

4. Fill in the blanks in this Processing code so that it prints the following table in the Console: /* 4 points */ Hint: "\t" is the tab character – it's how we can get the inches column to line up after printing yards.

```
Yards    Inches
1        36
2        72
3        108
.
.
.
10       360
```

```
int yards, inches;
println("Yards \t Inches");

for ( ___yards = 1___;___yards <= 10___;___yards = yards + 1___ ) {

    ___inches = yards * 36___;

    print( yards );
    print( "\t");
    println(inches);
}
```