

CSC 15 Summer exam 1

Name _____ 6/10/2019

1. What is the output produced from the following [statements](#)? (Treat tabs as aligning to every multiple of eight spaces.) To show spaces in the output use a dash.

```
System.out.println("\tname\tage\t\\nheight");  
System.out.print("Archie\t17\t5'9'");
```

2. What series of println [statements](#) would produce the following output?

```
"Several //slashes\\ are “sometimes” seen,"  
said Sally. "I've said so." See?  
\\ / \\ // \\ \\ /////
```

3. Declare a class constant to hold the tax rate of 7.75 percent. Must follow the name rules and conventions

4. Write a for loop to generate the following numbers: 1 3 5 7 9 11 13 15 17 19 21

5. What is the output of the following sequence of loops?

```
for (int i = 1; i <= 2; i++) {  
    for (int k = 1; k <= 3; k++) {  
        System.out.print("*");  
    }  
    System.out.print("!");  
    System.out.println("+");  
}
```

6. Suppose we want to write a program to hold the name, id, and gpa of a student. Declare variables for each value and initialize them to the values of your choice.

7. Evaluate the following expression. What would be the content of the variables a,b,c,d after the execution of the following code

```
Int a = 3;  
int b= 20;  
int c = 3 + 5 * 2 / 2 * a + b % 3;  
int d = b / a;  
double e = (int) (b /3.0);  
a++;  
b--;  
output:
```

a: _____
b: _____
c: _____
d: _____
e: _____

8. Write a method to generate the following output. You must use for loops. Solutions without for loops will get zero points. You must create a table to show the steps you take. Solutions without a table will get no credit.

```
----1
---12
--123
-1234
12345
```

9. What is the output produced from the following program? You may wish to draw a structure diagram first. This is a slightly modified version of the previous problem, Strange.

```
public class Strange {  
    public static void main(String[] args) {  
        first();  
        System.out.println("The End")  
    }  
  
    public static void first() {  
        int a = 5;  
        int b = 2  
        System.out.println("Inside first method.");  
        System.out.print(a * b + " numbers are " + a + b);  
        Second();  
    }  
  
    public static void second() {  
        System.out.println("Inside second method.");  
    }  
}
```

10. Which one of the following are valid names in java. Put a check marks next to do valid names.

- a. 23hello
- b. Hello
- c. _HELLO
- d. \$love
- e. \$_123