

## CSYE 6200 Quiz 1 – Oct. 7, 2019 NUID

Name \_\_\_\_\_

1) Complete the following sentences: [6]

A) Java is executed on a run-time system called the JVM or JRE, or Java.

B) javac is a program that compiles java into bytecode.

C) Three traits of Object-Oriented Programming are inheritance,  
encapsulation, and \_\_\_\_\_.

2) Write the general form of a **for** loop: [2]

*for (initialization; condition; iteration ){statements} – 2 points*

*for (int i = 0; i < 4; i++ ){...} – 1 point*

3) Which of the following variable names are valid (circle valid names)? [1]

A) #value    B) 35value    C) \$value    D) value83

4) After the following statement is executed: [1]

```
int x = 5 + (4 * 5) / 2;
```

What is the resulting value of x? 15

5) After the following statements are executed: [2]

```
int a = 5;  
a *= 4;  
a++;  
int b = a % 5;  
System.out.println("b: " + b);
```

What will print on the console? b: 1

6) After the following statements: [1]

```
int iVal = 0;
double dVal = 4.90;
iVal = (int) dVal;
System.out.println("iVal = " + iVal);
```

What will print on the console? iVal = 4

7) After the following statements: [2]

```
for (int i = 0; i < 7; i++) {
    if (i == 1) continue;
    if (i >= 4) break;
    System.out.print(i + " - ");
}
```

What will print on the console? 0 - 2 - 3 -

8) Answer the console display question: [2]

```
int choice = 5;
int val = 0;
choice++;
switch (choice) {
    case 4: val = 1; break;
    case 5: val = 2; break;
    default:
        case 7: val = 3; break;
}
System.out.println("val = " + val);
```

What will print on the console? val = 3

9) When is a static variable initialized? Answer: b [1]

- a) When a new instance is generated
- b) When the class is loaded**
- c) When finalize() is called
- d) When an owning class method is called

10) Rewrite the sequence using the ? operator. [2]

```
if (x < 0) y = 5;
else y = 10;
```

Answer: **y = (x < 0) ? 5 : 10; - 2 points**

**(award 1 point for nearly correct answers with syntax errors)**