

CT4: CSE 203 - Object-Oriented Programming I: Java (Sec C)

Time: 25 min

Mark: 20

Name:

ID:

- 1) Identify the errors in the code below and fix the errors. You are not allowed to delete any line of code. You can only add new line or edit existing line [8]

```
public class TestAnimal {

    public static void main(String[] args) {
        Animal tiger = new Animal("Tiger") {

            @Override
            public void makeSound(String sound) {
                System.out.println(sound);
            }

            public void hunt(String prey) {
                System.out.printf("%s like to hunt %s\n", name, prey);
            }
        };

        tiger.makeSound();
        tiger.hunt("Deer");
    }
}

abstract class Animal{
    String name, color;
    float weight;

    public Animal(String name) {
        this.name = name;
    }

    public abstract void makeSound();

    public String toString() {
        return String.format("%s-%s-%.1f", name, color,
weight);
    }
}
```

- 2) Create a multi-threaded application extending Thread. The application should run 3 threads where each thread should print the first 10 numbers of Fibonacci series. [12]

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- 1) Complete the code below as per the comment in the code.

[8]

```
package ct5;

public class CT5_OuterClass {
    String ctName;
    int mark = 20;

    class QuizInner{
        int mark = 10;

        public void printMarks(int mark) {
            // print the mark instance variable of CT5_OuterClass

            // print the mark instance variable of QuizInner

            // Multiply the mark parameter with 3 and print the result

        }
    }
}
```

- 2) Create a multi-threaded application implementing the Runnable interface. The application should run 3 threads where each thread will print 10 random numbers between 0 to 49. [12]