Class Test 03(A): CSI 203 – Object Oriented Programming, Spring 2019
Total Marks: 20, Time: 30 minutes

Name: ID:

1. Consider the code below. Create a subclass of the "Person" class named "***Doctor***". Add 2 additional attributes, ***rank*** (float type), and ***noOfPatiens*** (int type). Add a ***constructor*** to the "Doctor" Class which will initialize all 5 attributes. Also add a ***display()*** method that will print values of all 5 attributes.

```java
class Person{
        String name, id, gender;
        public Person(String name, String id, String gender) {
                super();
                this.name = name;
                this.id = id;
                this.gender = gender;
        }

        public void eat(){
                System.out.println("Human is omnivorous.");
        }
}
```

2. A) Now create a class name **TestDoctor** and add main method. Inside the **main** method, create an object of Doctor Class, use hardcoded parameters for the constructor. Call the **eat()** methid and **display()** method via the object you just created.

B) What would be the output of the program of question 2A?

Name: ID:

1. Consider the code below. Create a subclass of the "Animal" class named "**Tiger**". Add 2 additional attributes, *color* (String type), and *hasStripe* (boolean type). Add a *constructor* to the "Tiger" Class which will initialize all 5 attributes. Also add a *display()* method that will print values of all 5 attributes.

```java
public class Animal {
        String name;
        float weight, height;

        public Animal(String name, float weight, float height) {
                super();
                this.name = name;
                this.weight = weight;
                this.height = height;
        }

        public void eat(){
                System.out.println(name + " can eat");
        }
}
```

2. A) Now create a class name **TestAnimal** and add **main** method. Inside the main method, create an object of **Tiger** Class, use hardcoded parameters for the constructor. Call the **eat()** method and **display()** method via the object you just created.

B) What would be the output of the program of question 2A?