**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.

**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.");

}

}

1. 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?

**Class Test 03(B): 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 “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.

**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");

}

}

1. 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?