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

Name: ID:

1. Assume there is a class name **Vehicle** which implements the **Operation** interface. Observe the **Operation** interface and the **TesVehicle** code below. Define the **Vehicle** class in such a way so that the main method in **TestVehicle** class generates the output shown below.

Code	Output

<pre>public interface Operation {
    void start();
    void stop();
}
 	
public class TestVehicle{
    public static void main(String[] args) {
        Vehicle v = new Vehicle("Toyota", "Corolla");
        System.out.println(v);//first output
        v.start();
        System.out.println(v);//2nd output
        v.accelerate();
        System.out.println(v);//3rd line in output
    }
}</pre>
	Toyota:Corolla:0
	Toyota:Corolla:10
	Toyota:Corolla:15

2. Create a user-defined Exception and name it **LowAttendanceException**. **LowAttendanceException** will take a double value *cutoff* as parameter and set the Exception message to "Attendance can't be less than [cutoff] percent" where [cutoff] is the value of *cutoff* parameter.

Name: ID:

1. Given the abstract class **Person** and interface **HealthCare** below, define the **Doctor** class which should be a child class of **Person** class and also implement the HealthCare interface.

Code
| ```
abstract class Person{
      String name;
      int age;
      public Person(String name, int age) {
            this.name = name;
            this.age = age;
      }

      void eat() {
            System.out.println("Eating.");
      }

      abstract void makeSound();
}

interface HeathCare{
      void bPCheck();
      void firstAid();
      float getRank();
}
``` |

2. Create a user-defined Exception and name it **LowAttendanceException**. **LowAttendanceException** will take a double value *cutoff* as parameter and set the Exception message to "Attendance can't be less than [cutoff] percent" where [cutoff] is the value of *cutoff* parameter.