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| --- | --- |
| No. of Pages | 2 |
| No. of Questions | 2 |
| Total Marks | 22 |
| **Time**: 50 minutes | |

**Department of Computer Science and Engineering**

B

**MIDTERM EXAMINATION Summer 2017**

**CSE 111: Programming Language II**

* Write theory teacher’s initial (MSA/MSN) on top of the answer script.
* Answer all questions. Use **back part** of the answer script for rough work.
* Answer Question 1 at the **beginning part** of answer script.
* Write final answers of tracing problems **on the question paper**.
* Figure in bracket [] next to each question indicates marks for that question.
* At the end of exam, put **question paper** inside answer script and **return both**.
* Understanding the question is part of the exam, **please do not ask questions**. No washroom breaks.



**Section: \_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_\_\_ Name in CAPITAL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name/Initials of Lab Teachers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Room Number \_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Day and Time \_\_\_\_\_\_\_\_\_\_\_**

#### Question 1 [10 Points]

**public class Dog {**

**private String color = "Black";**

**//your code here**

**}**

**public class Midterm {**

**public static void main (String[] args){**

**Dog scooby = new Dog();**

**Dog odie = new Dog("Red");**

**Dog goofy = new Dog("Blue");**

**scooby.bark();**

**odie.bark();**

**goofy.bark();**

**scooby.changeColor("Brown");**

**scooby.bark();**

**}**

**}**

Complete the **Dog** class so the **main** method above produces the following output:

**Black dog is barking**

**Red dog is barking**

**Blue dog is barking**

**Brown dog is barking**

**[Answer on the answer-script]**

#### Question 2 [12 Points]

**Consider the following class:**

|  |
| --- |
| **public class Human {** |
| **public int age = 10;** |
| **public double height = 11.10;** |
| **public void printBoth() {** |
| **age = age + 2;** |
| **System.out.println(age +"10");** |
| **System.out.println(height);** |
| **height--;** |
| **}** |
| **}** |

**Show the output of the following sequence of statements: [Answer on question paper]**

|  |  |
| --- | --- |
| **Human h1 = new Human();**  **Human h2 = new Human();**  **System.out.println(h1.age);**  **System.out.println(h1.height);**  **h2.height = h1.height - 8;**  **h2.age = h1.age + 2;**  **h1.printBoth();**  **h2.printBoth();**  **h2 = h1;**  **h2.age++;**  **h2.height++;**  **h1.printBoth();**  **h2.printBoth();**  **System.out.println(h2.age);**  **System.out.println(h1.height);** | **Output** |
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