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| --- | --- |
| No. of Pages | 2 |
| No. of Questions | 3 |
| Total Marks | 22 |
| **Time**: 50 minutes | |

**Department of Computer Science and Engineering**

A

**MIDTERM EXAMINATION Summer 2018**

**CSE 111: Programming Language II**

* Write theory teacher’s initial (AAR/DIP/MSA/MSN/SEJ/SLI) 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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lab Teacher Name/Initials \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Room Number \_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Day & Time \_\_\_\_\_\_\_\_\_\_\_**

#### Question 1 [10 Points]

**public class Player{**

**private String name = "Default";**

**private int number = 0;**

**private String team = "Default";**

**//your code here**

**}**

**public class WC2018{**

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

**Player p1 = new Player();**

**p1.setName("Neymar");**

**p1.setNumber(10);**

**p1.setTeam("Brazil");**

**p1.detail();**

**System.out.println("---------------------------");**

**Player p2 = new Player("Ronaldo");**

**p2.setNumber(7);**

**p2.setTeam("Portugal");**

**p2.detail();**

**System.out.println("---------------------------");**

**Player p3 = new Player("Messi", 10);**

**p3.setTeam("Argentina");**

**p3.detail();**

**System.out.println("---------------------------");**

**Player p4 = new Player("Neuer", 1, "Germany");**

**p4.detail();**

**}**

**}**

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

**Neymar\*is\*no.10\*for\*Brazil**

**---------------------------**

**Ronaldo\*is\*no.7\*for\*Portugal**

**---------------------------**

**Messi\*is\*no.10\*for\*Argentina**

**---------------------------**

**Neuer\*is\*no.1\*for\*Germany**

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

**Question 2 [6 Points]**

**[Answer on question paper]**

**Show the output of the following sequence of statements:**

**Provision p;**

**p = new Provision();**

**p.x = 44;**

**p.methodTwo();**

**p.y = 3;**

**p.methodOne();**

**p.methodOne();**

**p.methodTwo();**

|  |
| --- |
| **Output** |
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| --- |
| **Consider the following class:** |
| **public class Provision{** |
| **public int x;** |
| **public int y;** |
| **public void methodOne(){** |
| **x += 4;** |
| **++y;** |
| **System.out.println(x);** |
| **System.out.println(y);** |
| **}** |
| **public void methodTwo(){** |
| **x += y;** |
| **y = x - 6;** |
| **System.out.println(y);** |
| **}** |
| **}** |

#### Question 3 [6 Points]

#### [Answer on question paper]

|  |  |  |
| --- | --- | --- |
| **Output**  **[Answer on question paper]** | | |
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**What is the output of the following code sequence?**

**int[] q = {2, 4};**

**Test5 t5;**

**t5 = new Test5(q);**

**Test5 t6;**

**t6 = new Test5(q,7,11);**

**t6.methodA();**

|  |
| --- |
| **public class Test5{** |
| **static int sum;** |
| **private int x, y;** |
| **public Test5(int[] a){** |
| **x=++a[0];** |
| **y= a[1]++;** |
| **}** |
| **public Test5(int[] a, int x, int p){** |
| **this.x = p+a[1];** |
| **y = x-a[0];** |
| **}** |
| **public void methodA(){** |
| **int x=2;** |
| **int[] msg = {2, 7, 4};** |
| **methodB(msg[2], msg[1]);** |
| **sum = this.x+x+y+msg[0];** |
| **System.out.println(this.x+" "+x+" "+sum);** |
| **}** |
| **private int methodB(int mg2, int y){** |
| **int x =2;** |
| **this.y = this.y+y-mg2;** |
| **this.x = x-5+y+this.x;** |
| **x = y+this.y;** |
| **sum = sum-x+y;** |
| **mg2 = y-sum;** |
| **System.out.println(x+" "+y+" "+sum);** |
| **return mg2;** |
| **}** |
| **}** |