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| No. of Pages | 2 |
| No. of Questions | 2 |
| Total Marks | 20 |
| **Time**: 1 Hour | |

**Department of Computer Science and Engineering**

A

**MIDTERM EXAMINATION Summer 2016**

**CSE 110: Programming Language I**

* Write intial/name of theory teacher and section on top of the answer script
* Answer all questions. Use the answer script for rough work.
* Write answer of question 2 **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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Names/initials of Lab Teachers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lab Room Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Time \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question 1 [10 Points]**

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

Draw the **flowchart** of a program that asks the user for starting value, ending value and the change/difference between terms of an arithmetic series and then prints the series. For example**,** If the user gives 0, 1234, 100, then your program should print 0, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200.

**Question 2 [*10* Points]**[answer on question paper]

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| --- |
| **public class Q2A {** |
| **public static void main(String[] args) {** |
| **int x=2, p=16, sum=0;** |
| **double q;** |
| **while (p > 0){** |
| **q = x + p-(sum+5/3)/3.0%2 ;** |
| **sum = sum + (x++) + (int)q;** |
| **System.out.println(sum);** |
| **if (x > 5)** |
| **p -= 10/3;** |
| **else** |
| **p -= 6%3;** |
| **}** |
| **sum += p;** |
| **System.out.println(sum);** |
| **}** |
| **}** |

**Output** [Answer on the question paper, Draw more boxes if necessary]

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