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| No. of Pages | 1 |
| No. of Questions | 3 |
| Total Marks | 30 |
| **Time**: 1 Hour | |

**Department of Computer Science and Engineering**

A

**MIDTERM EXAMINATION Spring 2014**

**CSE 110: Programming Language I**



* Answer all questions. Use the answer script for rough work.
* 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.



Section: \_\_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name in CAPITAL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

Lab Room Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Day \_\_\_\_\_\_\_\_\_\_\_Lab Time \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(UB 50301/50302/40101 …) (WED/THU/…) (8🡪11/11🡪2 **/** 2🡪5)

**Question 1 [10 Points] [Answer on the answer-script]**

Draw the flowchart of a program that asks the user how many quiz marks the user wants to enter. Then take that many quiz marks as input. Also take midterm and final examination marks. Print the total mark as output. Total mark = average of quiz mark + midterm + final.

There will always be at least one quiz in the input.

**Example1**: If the user gives 4, 27, 28, 29, 30, 20, 50, then your program should print 98.5.

Explanation: (27+28+29+30)/4 = 28.5. Total mark = 28.5+20+50 = 98.5.

**Example 2:** If the user gives 1, 10, 15, 45, then output will be 70.

**Question 2 [10 Points] [Answer on the answer-script]**

Write the java program of Question 1.

**Question 3 [10 Points] [answer on question paper]**

**OUTPUT:**

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| --- |
| **public class Q3A {** |
| **public static void main(String[] args) {** |
| **int x = 0, y =102, sum = 0;** |
| **while (y > 8){** |
| **if (sum < 40) {** |
| **sum = sum + x \* 2 ;** |
| **} else if (sum < 50) {** |
| **sum = sum + x \* 3;** |
| **} else {** |
| **sum = sum + 23;** |
| **}** |
| **System.out.println(sum);** |
| **y = y - 10;** |
| **x = x + 2;** |
| **}** |
| **}** |
| **}** |

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**Note**: There may be more or less output boxes than necessary. Draw more if needed.