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| --- | --- |
| No. of Pages | 2 |
| No. of Questions | 4 |
| Total Marks | 35 |
| **Time**: 1 Hour | |

**Department of Computer Science and Engineering**

A

**MIDTERM EXAMINATION Spring 2013**

**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.



Name in CAPITAL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Section: \_

Name of Theory Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Annajiat/ Imran / Faraz sir)

Name of 1 Lab Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Day \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Ridwan / Kaonain / Nabila / Annajiat ..etc) (TUES / WEDNES / THURSDAY)

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

(UB50302 / UB50301 / UB40401 ..etc.) (8🡪11 **/** 11🡪2 **/** 2🡪5)

#### **Question 1 [10 Points]**

Draw flowchart of a program that prints the following series (all 7 numbers):

55, 66, 77, 88, 99, 110, 121. **[Answer on the answer-script]**

#### **Question 2 [10 Points]**

Draw flowchart of a program that takes a number from the user and prints it’s equivalent grade point based on grading system in schools in Bangladesh. For example, if the user types 60, then, 3.5 should be printed as output. **[Answer on the answer-script]**

|  |  |
| --- | --- |
| **Marks** | **Grade Point** |
| 80-100 | 5 |
| 70-79 | 4 |
| 60-69 | 3.5 |
| 50-59 | 3 |
| 40-49 | 2 |
| 33-39 | 1 |
| 0-32 | 0 |

#### **Question 3 [5 Points]**

Write a java program that prints **your own name**, this **year,** and the message “**Thank You**” in 3 separate lines. The output should look like 3 lines shown below.

[**Note**: Use proper/meaningful class name and give spaces/indent well.]

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

**Muhammad Java Chowdhury**

**2013**

**Thank You**

#### **Question 4 [10 Points]**

**Write the output of the following flowchart: [Answer on the question paper]**

|  |
| --- |
| **OUTPUT** |
| **10** |
| **20** |
| **22** |
| **77** |
| **33** |
| **88** |
| **44** |
| **99** |
| **55** |
| **110** |
|  |
|  |

START

Y

=

10

Y

<

60

PRINT W

R

=

0

N

=

Y

N

>

1

R = R x 10

H = N % 10

R = R + H

N = N - H

N = N / 10

W

=

Y

+

R

Y

=

Y

+

5

YES

NO

YES

END

NO