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**INTERNAL EXAMINATION
SEPTEMBER/OCTOBER SEMESTER 2020**

**BACHELOR OF COMPUTER SCIENCE (HONS.)
(IN COLLABORATION WITH IUKL)**

**OBJECT ORIENTED PROGRAMMING
(CSC2515)**

(TIME: 1 HOUR)

MATRIC NO. :

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IC. / PASSPORT NO. :

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LECTURER : SOM PRASAD SHRESTHA

GENERAL INSTRUCTIONS

1. This question booklet consists of 3 printed pages including this page.
2. Answer **ALL** questions in the **ANSWER BOOKLET**.
3. **PLEASE DO NOT TURN THIS PAGE AND START THE EXAM UNTIL YOU ARE TOLD TO DO SO.**

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(30 MARKS)

This section consists of ONE (1) question. Answer ALL questions in the Answer Booklet.

1. An English tuition teacher has two students. There are three assignment throughout the semester. Marks are collected and to calculate the following:
- Total all scores and average for each student.
 - Total all scores and average for each Assignments.

Write a program that uses a two-dimensional array to reads and stores the student's marks. The program shall consist of following methods:

- A void method to calculate total and average of each student's marks.
 - A void method to calculate total and average of each assignment's score.
- [Note: use nested for loop while taking input from user and while calculating the required values]

Structure of Program

```
class MarkStore {  
    public static void main(String[] args) {  
        final int STUDENTS = 2;  
        final int SUBJECTS = 3;  
        double[][] marks = new double[STUDENTS][ SUBJECTS];  
        //add code here  
        System.out.println("\nTotal and average for each student");  
        totalAverageStd(scores);  
        System.out.println("\nTotal and average for each Assignment");  
        totalAverageAssignments(scores);  
    }  
    //define required methods  
    // refer to sample output for details in next page
```

Sample Scree of output:

Enter three marks for:

Student 1:

Assignment 1: 67.0

Assignment 2: 78.0

Assignment 3: 63.0

Student 2:

Assignment 1: 87.0

Assignment 2: 78.0

Assignment 3: 77.0

Total and average for each student

Student 1: Total scores: 208.0 Average: 69.33

Student 2: Total scores: 242.0 Average: 88.66

Total and average for each Assignment

Assignment 1: Total scores: 154.0 Average: 77.0

Assignment 2: Total scores: 156.0 Average: 78.0

Assignment 3: Total scores: 140.0 Average: 70.0

(30 marks)

***** END OF QUESTIONS *****