

Name : _____ **Marked By** : _____
Number : _____ **Number** : _____
email : _____

**A. Written Assignment – Done during Tutorial on Feb 22nd
– Submit to CourSys by Nov 4th**

Section A does not require any programming. Write your answers neatly in a document such as a Word Document or PDF File. Keep each answer brief with one or two sentences being sufficient in most cases.

We will review Section A during your Lab Tutorial on Feb 22. You will have time to complete the answers during the lab, and it will be marked and in the last half of the lab. You must then submit the corrected version into CourSys by the final deadline.

Your document must include your name, student number, Course Name, Assignment Number, and Date along with your answers to the following questions. Use Courier font and double-space in your write up. Image files of handwritten work are not acceptable.

1. Chapter 10 – Classes

10 Marks

(a) What is the benefit of encapsulation?

(b) What is the difference between a Struct and a Class

(c) What is the difference between an Object and a Class?

(d) Are members of a class public or private by default?

(e) What are constructors used for?

(f) What does it mean to overload constructor?

(g) What is an aggregate object?

(h) Describe the difference between a public and private method.

(i) Describe what an Abstract Data Type (ADT) is and why we use them?

(j) What is Inheritance and what is its key benefit?