

CSC 2205 C# Programming

Exam and Review

Make sure you know the correct
DATE and **TIME**

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Exam

- ▶ 2 Hour examination + 10 minutes reading time
- ▶ Closed book
 - No written materials, calculators, or aids allowed
- ▶ Use **INK** Pen to write your answers
 - Cannot use pencil except for drawing or sketching.
- ▶ Please write **legibly!!**
 - No *cursive* writing
 - No **tiny** writing
- ▶ Start a new page of exam script book for each question.

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Exam

- ▶ The paper will have two sections - Section A and Section B.
- ▶ You are required to
 - Explain OOP concepts
 - Write the program codes
- ▶ When answer,
 - Always refer to the Concept
 - Use code example if possible for each answer, which can help you to clarify your meaning

Note: During examination there will be no opportunity for clarification, you will need to interpret the questions on your own, especially the coding questions in which the answers can be varied.

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Exam

- ▶ C# OOP concept questions
 - Class, Object and Constructor
 - Access Controllers (private vs public vs protected etc.)
 - Encapsulation – information / implementation hiding
 - Instance variable and Property
 - Methods - overloading, static, override etc.
 - Inheritance (base vs derived class, abstract class vs concrete class, abstract class vs interfaces, etc.) - reusability
 - Polymorphism (class referencing to objects, type casting etc.)
 - Generic Methods (with overloading) and Generic Class

Note: Use code examples to explain your answers!

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Exam Section A:

- ▶ 50% of total final exam marks (100%)
 - ▶ One question only, Q1, but it's **compulsory** question
 - ▶ **Purely CODING**
 - ▶ Question involves C# Programming Object-Oriented concepts of class/object, inheritance and polymorphism (includes Abstract class).
- Note: this question is similar to the Lab Exercises.

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Exam Section B:

- ▶ 3 questions (Q2, Q3, Q4), you only answer **TWO** of them.
- ▶ Each question is worth 25 marks for a total of 50 marks in this Section.
- ▶ Q2 consists of three (3) sub-questions,
 - a) Explain a general concept of Object-Oriented Programming
 - b) Explain a class-specific concept in Object-Oriented Programming
 - c) Explain different ways of implementing methods
 - To write codes of methods as example to explain your answer.

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Exam Section B:

- ▶ Q3 consists of four (4) sub-questions
 - a) Explain concept of inheritance
 - b) Explain concept of abstraction using different base classes (i.e. abstract class and interface class)
 - c) Explain different ways of implementing methods in inheritance (i.e. abstract non-concrete and concrete method implementation)
 - d) Write codes to implement abstraction classes
- ▶ Q4 consists of two (2) sub-questions
 - a) Create “Generic” class and its test codes
 - b) Explain the concept of implementing “Generic” methods
 - To write generic codes of methods as example to explain your answer

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Use Reading Time To Plan Your Approach

- ▶ Read through the entire paper
 - Be clear on what is being asked of you
- ▶ Decide how you will tackle the paper
 - Section A, start with base class first, then work all the way down
 - For Section B, decide which TWO questions you want to do
- ▶ Calm down and focus on what you know while waiting to write.

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Thank You 🤔

Good Lucks To You 🤞😊

Wish you



**All The Best
In**



All Your Exams



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