

International Islamic University Chittagong
 Department of Electrical and Electronic Engineering
 B. Sc. Engineering in EEE
 Midterm Examination, Autumn 2022

Course Code: CSE 1205

Course Title: Computer Programming II

Time: 1 hour 30 minutes

Full Marks: 30

- (i) Answer all the questions. The figures in the right-hand margin indicate full marks.
 (ii) Course Outcomes (COs) and Bloom's Levels are mentioned in additional Columns.

Course Outcomes (COs) of the Questions	
CO1	Demonstrate an understanding of Basic object-oriented programming.
CO2	Apply basic object-oriented programming laws and rules to complex cases like; Logical expressions and control constructs.
CO3	Analyze basic terms like: Sorting, Searching and Geometric.

Bloom's Levels of the Questions						
Letter Symbols	R	U	Ap	An	E	C
Meaning	Remember	Understand	Apply	Analyze	Evaluate	Create

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|-----------|---|----------|-------|-----|
| 1) a) i). | Distinguish Object-Oriented Programming's fundamental ideas (OOP). | CO1 | R | 3+2 |
| | ii). Class is a blueprint. Justify rationally. | CO2 | An | |
| 1) b) | Address a program that overloads a function called area that finds out the area of a rectangle and a square. | CO2 | U, An | 5 |
| 2) a) i). | Why are Constructors worked? Why use a default Constructor? Describe briefly. | CO1 | U | 3+2 |
| | ii). What is a friend function role? Why is it required? | CO2 | An | |
| 2) b) | Write a program to define a class "Supermarket", which may have data about i) area in square feet, ii) room number and iii) capacity (number of customers). Use parameterized and copy constructors to create different objects in the main function. | CO2 | R, An | 5 |
| 3) a) | Does it possible to obtain the impact of default arguments using function overloading? Describe it with an example. | CO1, CO2 | U, R | 5 |
| 3) b) | Write a program overloading with different numbers of arguments and different data type of arguments. | CO3 | U, An | 5 |

OR,

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|-----------|--|-----|-------|-----|
| 3) a) i). | Distinguish between constructor and member function. Justify. | CO1 | U | 2+3 |
| | ii). How would you disambiguate/differentiate two functions in function overloading? | CO2 | R | |
| 3) b) | Write a parameterized constructor program in C++. | CO3 | U, An | 5 |