

International Islamic University Chittagong
 Department of Electrical and Electronic Engineering
 B. Sc. Engineering in EEE
 Midterm Examination, Spring 2023

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

- | | | | | |
|----------|--|-----|----------|---|
| 1) a) | What are the differences between object-oriented programming and structural programming? Briefly discuss the main features of Object Oriented Programming (OOP). | CO1 | R,C | 4 |
| 1) b) i) | Write a program to define any class of your choice that uses Default constructor. And also use this constructor to create objects in the main function. | CO2 | R,C | 4 |
| | ii) Objects are the instance of class. Justify with reason. | CO1 | E | 2 |
| 2) a) i) | Why Are Constructors Worked? Why Use A Default Constructor? Describe Briefly | CO1 | U, | 3 |
| | ii) What is a friend function role? Why is it required? | CO2 | An | 2 |
| 2) b) | Write a program to define the class "Supermarket," which may contain data about the following: (i) the area in square feet; (ii) the room number; and (iii) the capacity (number of customers).Use parameterized and copied Constructor and create different objects in the main function. | CO2 | R,
An | 5 |

- 3) a) What do you mean by "function overloading"? Write A Program by using Function Overloading which satisfied the condition of overloading Different number of Arguments and Different data type of arguments. CO2 Ap 5
- 3) b) What is an overloading ambiguity situation? Write a programme that indicates ambiguous calling and what action needs to be taken to remove that ambiguous calling. Explain with example? CO1 Ap 5

OR

- 3) a) i) Distinguish between constructor and member functions. Justify CO2 E 2
- ii) How Would You Disambiguate/Differentiate Two Functions In Function Overloading? CO2 Ap 3
- 3) b) Write A Parameterized Constructor Program In C++. CO1 Ap 5