



## Term Evaluation (Even) Semester Examination March 2025

Roll no.....

Name of the Course and semester: BCA Semester-II

Name of the Paper: Introduction to Object-Oriented programming.

Paper Code: TBC-202

Time: 1.5 hour

Maximum Marks: 50

### Note:

- (i) Answer all the questions by choosing any one of the sub questions
- (ii) Each question carries 10 marks.
- (iii) Please specify COs against each question.

Q1. (10 Marks)

- a. What is object-oriented paradigm? Write the benefits of OOP. What are the key differences between Modular and OOPS approach? **CO-1**

OR

- b. Write short notes on the following terms: **CO-1**
- (i) Method Overloading (ii) Access specifiers (iii) Scope resolution operators

Q2. (10 Marks)

- a. Explain the different member access specifier used in C++ with a suitable example. **CO-2**

OR

- b. What are various control statements used in C++? Explain in detail. **CO-1**

Q3. (10 Marks)

- a. What are the various storage classes in C++? Elaborate with proper example. **CO-1**

OR

- b. Describe Inline and Non-inline member function of a class with a suitable example. **CO-2**

Q4. (10 Marks)

- a. What is a constructor in C++? How many types of constructors are there in C++? Explain the advantage of constructors with the help of an example. **CO-2**

OR

- b. What is the purpose to declare a class instance member (data or function) as static? Give a suitable example. **CO-2**

Q5. (10 Marks)

- a. Write a program in C++ to create a class Queue with insert(), delete() and display() as member function. Assume necessary data members. **CO-2**

OR

- b. Write a menu driven program in C++ to create a class Student with member data (name, program, roll, sem) with the following menu options. **CO-2**

1. Insert
2. Display All
3. Search
4. Exit

Enter your choice: