Graphic Era
HILL UNIVERSITY

Tanksha Dhyani

Term Evaluation (Even) Semester Examination March 2025

Roll no. 242162 ~

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: