BCA-10

June - Examination 2026
BCA (Part-II) Examination
Object Oriented Programming in C++
Paper : BCA-10

[*Time: **3** Hours*] [*Maximum Marks: **70***]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions in each section.

Section-A **7×2=14**

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) Define Class.

   (ii) What is Function Overloading?

   (iii) Define Encapsulation.

   (iv) What is Dynamic Memory Allocation?

   (v) Define Polymorphism.

   (vi) What is a Constant?

   (vii) Define Exception Handling.

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer **any four** questions. You have to delimit your each answer maximum up to **200** words. Each question carries **7** marks.

2. Explain the concept of Classes and Objects with suitable examples.
3. Discuss different types of Constructors in C++.
4. Differentiate between Call by Value and Call by Reference.
5. Explain Function Overloading with example.
6. Discuss the concept of Exception Handling in C++.
7. Write a short note on Operators in C++.
8. Explain the concept of Abstract Class.
9. Discuss the advantages of Object-Oriented Programming.

Section-C 2×14=28

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **14** marks.

10. (a) Explain Single, Multiple, Multilevel and Hierarchical Inheritance with examples.

    (b) Explain loops in C++.

11. (a) Discuss the Data Types of C++

    (b) Explain the features of C++.

12. (a) Explain Operator Overloading with suitable examples.

    (b) Discuss Exception Handling Mechanism.

13. (a) Explain Friend Function and Friend Class with examples.

    (b) Discuss Memory Management in C++ using new and delete operators.
