

A-1264

Total Pages : 3

Roll No.

BCA-08

Bachelor of Computer Application (BCA)
Object-Oriented Programming Through C++
Examination February, 2026

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections ‘A’ and ‘B’. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section–A

(Long Answer Type Questions) (2×19=38)

Note :- Section ‘A’ contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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(1)

P.T.O.

1. Explain the different types of constructors in C++ and write a detailed note on the copy constructor with suitable examples.
2. Explain arrays, pointers, structures, and unions in C++ with suitable examples. Also discuss the differences between structures and unions.
3. Explain file handling in C++. Describe file classes, file opening/closing, file modes, file pointer manipulation, and basic I/O functions with examples.
4. Explain the concept of static data members and static member functions in C++, highlighting their features and uses.
5. Describe the concept of an abstract class in C++ and explain its significance in object-oriented programming.

Section–B

(Short Answer Type Questions) (4×8=32)

Note :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Describe multilevel and multiple inheritance in C++ with diagrams.

2. Explain compile-time vs. run-time polymorphism with examples.
3. Write a detailed note on function overloading with examples.
4. Explain different decision-making statements in C++ with examples.
5. Describe pure virtual function and virtual base class.
6. What is random file access in C++ and how are the functions seekg() and seekp() used to move file pointers ?
7. How is an array of objects defined and used in C++ ?
8. Write a C++ program to find the largest number among three numbers entered by the user.
