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[Roll No.]

BCA-08

**Bachelor of Computer Application B.C.A.
IIIrd Semester Examination Dec., 2023**

**OBJECT-ORIENTED PROGRAMMING
THROUGH C++**

Time : 2 Hours]

[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 there in. 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. Define Object-Oriented Programming (OOP) and highlight its core principles.
2. Define Tokens, Identifiers, and Keywords in C++.
3. Differentiate between the if-else and switch statements in C++ with examples.
4. Define arrays, pointers, structures, and unions in C++.
5. What is Functions in OOP ? Explain the types of function in OPP.

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. What is an inline function ? Explain the advantages of using inline function in a program.
2. Explain the use of default, parameterized, and copy, constructors. With the help of an examples.
3. Explain multilevel, multiple inheritance in C++.
4. What is Polymorphism ? Explain static and dynamic polymorphism with an example.
5. Define virtual functions. Why we use virtual function in C++.

6. Describe file handling in C++.
7. Define Abstraction and Encapsulation in the context of OOP.
8. Explain the difference between structure and union.
