

BCA 109 N

B.C.A. (PART-I) EXAMINATION, 2024-25

(Second Semester)

Paper : IV

(New Course)

5802



**INTRODUCTION TO OBJECT ORIENTED
PROGRAMMING & C++**

Time : Three Hours]

[Maximum Marks : 75

- Note:** (i) Answer **Five** Questions in all.
(ii) Question No.-1 is **Compulsory**.
(iii) Answer remaining **four** questions, selecting **two** questions from each Section 'A' and 'B'.
(iv) All questions carry equal marks.

1. Answer all parts of the following :
- Explain the term Class and Object in context of OOP.
 - List some basic difference in C and C++.
 - Explain Tokens and Identifiers.
 - Explain type casting in C++.
 - What is data hiding?

Section-A

2. What are Constructors and Destructors? Explain the properties of constructor as well as Destructors. Support your answer with sample program.

3. What is the difference between Operator overloading and function overriding ? Explain in detail.
4. In what ways object oriented programming is better than structured programming paradigm ? Explain the features of OOPs.
5. Explain the concept of functions. Also explain types of functions along with advantages of function.

Section-B

6.
 - (a) Explain the difference between break and continue with proper example.
 - (b) Explain copy constructor with proper syntax and example.
7.
 - (a) What do you mean by Polymorphism ? Explain with example.
 - (b) Explain the concept of Inheritance with all its types in C++.
8.
 - (a) Explain all the types of access specifier in context to C++.
 - (b) Write a program in C++ to check whether a given input number is prime or not.
9. Write notes on any two of the following:
 - (a) Friend Function
 - (b) Inline Function
 - (c) Name Spaces.

