

BCA 204

B.C.A. (PART-I) EXAMINATION, 2023-24

(Second Semester)

Paper : IV

INTRODUCTION TO OBJECT ORIENTED
PROGRAMMING & C++

Time : Three Hours]

[Maximum Marks : 70

- 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 different components of a function.
 - What is data hiding in OOPs ?
 - Explain features and characteristics of C++ programming language.
 - Explain different data types supported in C++ in brief.



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Section-A

2. What do you understand by the oops concepts ?
Give an example and explain its advantages over traditional programming approach.
3. What are operators in C++ ? Give their types and explain each with an example.
4. What do you mean by constructor ? Explain about different ways to use a constructor with examples.
Also, explain about the destructor with an example.
5. What do you mean by Inheritance ? What are its advantages ? Explain its types with examples.

Section-B

6. (a) Step out the execution steps of C++ source code.
- (b) Explain the string in C++. Also, Write a C++ program to reverse the given string.

7. (a) Explain access specifiers in C++.
- (b) What do you mean by Call by value and Call by Reference ? With a proper example also implement a C++ program to show how to use reference and dereference operators.
8. (a) Briefly explain the use of the following keywords in C++ with example.
- (i) Enum
- (ii) This
- (b) Write a program to swap two numbers by user defined function that not allow to use of the third variable.
9. Write notes on any two of the following :
- (a) Friend function
- (b) Abstract class
- (c) Templates in C++

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