

No. of Printed Pages : 4 **BCS-131/BCS-031**

**BACHELOR OF COMPUTER
APPLICATIONS (BCA)
(REVISED)**

Term-End Examination

June, 2026

**BCS-131/BCS-031 : PROGRAMMING
IN C++**

Time : 3 Hours

Maximum Marks : 100

(Weightage : 75%)

Note : (i) *Question No. 1 is compulsory and carries 40 marks.*

(ii) *Attempt any **three** questions from the rest. Answer questions in the context of C++.*

1. (a) What is an Exception ? How is it handled in C++ ? Explain with the help of an example. 10
- (b) What is a Virtual Function ? How does it differ from a Pure Virtual Function ? Explain with example. 10
- (c) What is Multiple Inheritance ? How does it differ from Multilevel Inheritance ? Explain with example. 10
- (d) Explain the process of memory deallocation in C++ with the help of an example. 10
2. (a) What is Function Overloading ? What are its advantages ? Explain how it is implemented in C++ with an example. 10

- (b) What is an Inline Function ? How do they differ from standard functions ?
Give examples. 10
3. (a) Write a program in C++ for addition of two complex numbers. 10
- (b) What is template function in C++ ?
What are its advantages ? Give an example. 10
4. (a) What is Object Oriented Programming ?
How does it differ from Procedural Programming ? Give examples. 10
- (b) What is a Copy Constructor ? How does it differ from Default Constructor ?
Explain with an example. 10

5. (a) What are stream manipulators ?

Explain any *two* stream manipulators
in C++. 10

(b) What is an abstract class ? What are its
advantages ? Explain with an example.

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