

V

(Printed Pages 3)

(21225)

Roll No.

BCA-III Sem.

18011

B.C.A. Examination, Dec.-2025

Object Oriented Programming

Using C++

(BCA-301)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from **all** the sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Note : Attempt **all** questions. Each question carries 03 marks. $3 \times 5 = 15$

1. What is difference between C and C++? 3
2. What is class? 3
3. What is abstract class? 3

P.T.O.

4. What is aggregation? 3
5. What is destructor? 3

Section-B

(Short Answer Type Questions)

Note : Attempt any **two** questions. $7.5 \times 2 = 15$

6. What is static data members and static functions? Explain with example. 7.5
7. What are features of object oriented programming? Explain. 7.5
8. What is dynamic memory allocation. Explain? 7.5

Section-C

(Detailed Answer Type Questions)

Note : Answer any **three** questions. $15 \times 3 = 45$

9. Define exception handling? Does C++ support multiple catch? Illustrate exception handling with suitable example in C++. 15

10. What is polymorphism? Explain run time polymorphism and compile time polymorphism. Explain with example in C++.
- 15
11. What is operator overloading? Explain operator overloading on '+' and '-' operators with suitable example in C++.
- 15
12. What do you mean by type casting and pointers? Explain both with example in C++.
- 15
13. Write short notes on any **three**:
- 15
- (a) Abstraction
 - (b) New and delete operators
 - (c) Friend function
 - (d) Copy constructor
 - (e) Name spaces