

V
(21225)
BCA-III Sem.

(Printed Pages 3) /
Roll No.

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

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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? <https://validcollege.com> 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

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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