K25U 1386

Reg. No. : .....

Name : .....

Second Semester B.C.A. Degree (C.B.C.S.S. – O.B.E. – Supplementary/ Improvement) Examination, April 2025
(2019 to 2023 Admissions)
Core Course
2B03BCA : OBJECT ORIENTED PROGRAMMING USING C++

Time : 3 Hours Max. Marks : 40

PART – A
(Short Answer)

Answer **all** questions. **Each** question carries **1** mark. **(6×1=6)**

1. List various logical operators in C++.
2. What do you mean by symbolic constants in C++ ?
3. _____ operator dynamically deallocates memory in C++.
4. Write syntax used to define a destructor in C++.
5. Name a statement in C++ that is used to skip current iteration and continue with next iterations.
6. C++ provides the _____ data type to handle true and false values.

PART – B
(Short Essay)

Answer **any 6** questions. **Each** question carries **2** marks. **(6×2=12)**

7. Write the syntax of else if ladder statement in C++.
8. Explain concept of function overloading in C++.
9. Write a note on dynamic memory allocation in C++.
10. Write C++ program to implement single level inheritance.
11. Mention features of dynamic constructor in C++.
12. Write need of abstract classes in C++.
13. What is a pure virtual function in C++ ?
14. Write about various file modes in C++.

P.T.O.

PART – C
(Essay)

Answer **any 4** questions. **Each** question carries **3** marks. **(4×3=12)**

15. Briefly explain C++ looping statements.
16. Write a note on array of objects in C++.
17. Compare protected and public member variables in C++.
18. Short note on constructors in C++ with an example.
19. Write a short note on virtual functions in C++.
20. Short note on multi-level inheritance in C++.

PART – D
(Long Essay)

Answer **any 2** questions. **Each** question carries **5** marks. **(2×5=10)**

21. Explain various concepts of Object-Oriented Programming.
22. Explain concepts of object and class in C++. Write a C++ program to add two complex numbers using object and class.
23. Describe overloading binary operators with a suitable example.
24. Explain various C++ stream classes.

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