Reg. No. : ....

Name : ....

Second Semester B.C.A. Degree (CBCSS – OBE – Regular/ Supplementary/ Improvement) Examination, April 2024
(2019 Admission Onwards)
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. Name any two OOP concepts.

2. What is a symbolic constant ?

3. _____ operator dynamically allocates memory in C++.

4. Write syntax to define a sub class in C++.

5. Name a statement in C++ that is used to exit from a loop.

6. When parameters are passed by pass by reference mechanism, any changes to parameters in the function will not affect original parameter values. True/False

PART – B : Short Essay

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

7. Write the syntax of switch statement in C++.

8. Explain any 4 Math library functions in C++.

9. Write note on friend function in C++.

10. Write C++ program to perform any two string operations.

11. Mention features of copy constructor in C++.

12. Write need of inheritance in C++.

13. What is a virtual function in C++ ?

14. Write about file input stream and file output stream.

PART – C : Essay

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

15. Briefly explain C++ data types.

16. Write note on static data members.

17. Compare private and protected member variables in C++.

18. Short note on operator overloading in C++ with an example.

19. Write a C++ program to implement virtual base class.

20. Short note on any 3 I/O functions in C++.

PART – D : Long Essay

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

21. Explain various operators in C++.

22. Explain constructors and destructors in C++ in detail.

23. Describe various types of inheritance in C++ in detail.

24. Explain various C++ classes for file stream operations.