



K26U 0832

Reg. No. :

Name :

Second Semester B.C.A. Degree (CBCSS – OBE – Supplementary)

Examination, April 2026

(2020 to 2023 Admissions)

CORE COURSE

2B03BCA : Object Oriented Programming Using C++

Time : 3 Hours

Max. Marks : 40

PART – A

(Short Answer)

Answer **all** questions.

(6×1=6)

1. _____ refer to fixed values that do not change the execution of a program.
2. Function overloading is also similar to constructor overloading. True or false.
3. Conditional operators are _____.
4. For single line comments uses _____.
5. When a language has the capability to produce new data type means, it can be called as _____.
6. What is inheritance ?

PART – B

(Short Essay)

Answer **any six** questions.

(6×2=12)

7. Explain the ways of creating symbolic constants in C++.
8. Explain the definition of main function.
9. What is copy constructor ?

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10. What is virtual base class ?
11. Explain the stream classes of file handling methods in C++.
12. Explain polymorphism.
13. Explain arrays.
14. What do you mean by symbolic constants ?

PART – C

(Essay)

Answer **any four** questions.

(4×3=12)

15. Explain the benefits of OOP.
16. Mention the properties of static member variables.
17. Explain the characteristic of a friend function.
18. Mention the rules for operator overloading in C++.
19. Explain the difference between compile time and run time polymorphism.
20. Difference between virtual function and pure virtual function in C++.

PART – D

(Long Essay)

Answer **any 2** questions.

(2×5=10)

21. Explain virtual function and rules for virtual functions.
 22. Explain the advantages of object oriented programming.
 23. Write a program to implement hybrid inheritance.
 24. Explain the following :
 - a) Constructors and destructors. 2
 - b) Copy constructors with example. 2
 - c) Dynamic constructors. 1
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