



K23U 1947

Reg. No. : .....

Name : .....

II Semester B.C.A. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, April 2023

(2019 Admission Onwards)

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. While overloading binary operators using member function, it requires \_\_\_\_\_ argument/s.
2. How many parameters does a default constructor require ?
3. \_\_\_\_\_ header file is used for manipulators.
4. \_\_\_\_\_ operator is used to dynamically allocate space for array in memory.
5. A \_\_\_\_\_ is an example of run time polymorphism which does not have any body.
6. When a base class is privately inherited by a derived class public members of the base class become \_\_\_\_\_ of the derived class.

PART – B  
Short Essay

Answer any 6 questions.

(6×2=12)

7. What are symbolic constants ?
8. What do you mean by nested if statements ?
9. Distinguish between formal parameter and actual parameter.

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10. What is the primary use of destructors ? Give an example.
11. What is the syntax for implementing a class as virtual base class ?
12. What is a pure virtual function ?
13. Define setw( ) and setprecision( ) manipulator functions.
14. What is file input stream and output stream ?

PART – C  
Essay

Answer **any 4** questions.

(4×3=12)

15. What is an array ? How arrays are implemented in C++ ?
16. Explain call by reference and call by value type of parameter passing.
17. Explain static keyword. What are the characteristics of static data members ?
18. Illustrate the difference between unary operator overloading and binary operator overloading.
19. Explain tellg( ) and tellp( ) with an example.
20. What is hybrid inheritance ? List the ambiguities of hybrid inheritance.

PART – D  
Long Essay

Answer **any two** questions.

(2×5=10)

21. Explain the concepts of object oriented programming.
  22. Write a program using class concept to enter details of 10 students and calculate the pass percentage using a friend function.
  23. What is a file mode ? Describe the various file mode options available.
  24. What is a constructor ? Which are the different types of constructors available in C++ ? Explain with examples.
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