

TB242459P

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024

2023 ADMISSIONS REGULAR

SEMESTER II - BCA (Cloud Technology and Information Security Management) **CORE**

BC2C03B23 - OOPS with C++

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Define the term Object in OOP.
2. Differentiate between cin and cout.
3. Explain inline functions.
4. Distinguish between data members and member functions in a class.
5. Declare a class called Employee with data members emp_id, name and salary. Define a constructor for Employee class that initializes its data members.
6. Differentiate between member function and friend function.
7. Explain hierarchical inheritance.
8. Discuss on hybrid inheritance.
9. Define pointer.
10. Describe an array of pointers.
11. Give the syntax for function template.
12. Give the syntax for class template.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Write a short note on evolution of programming methodologies.
14. Explain function overloading with example.
15. Explain how member functions are defined and invoked in C++ program.
16. Explain the type conversion from one class to another class type.
17. Demonstrate with example the binary operator overloading using member function.
18. Describe the use of friend function with examples.
19. Write a C++ program to demonstrate use of virtual function.
20. Explain the various file opening modes available.
21. Write a C++ program to demonstrate exception handling.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Discuss on functions. Explain the various parameter passing techniques in functions.
23. Distinguish between private and public inheritance. Explain the concepts with example programs.
24. Explain how run time polymorphism is achieved using virtual function.
25. Describe the different file input output functions in C++.

