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Bachelor's Degree (C.B.C.S) Examination, March 2025

2023 ADMISSIONS SUPPLEMENTARY

B.C.A SEMESTER II - CORE COURSE

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. Write the syntax for switch statement.
- 2. Discuss on enumerated types.
- 3. Define the term Class.
- 4. Discuss the purpose of a destructor.
- 5. List down the characteristics of constructors.
- 6. Distinguish between base class and derived class.
- 7. List down the operators that cannot be overloaded using friend function.
- 8. Describe inheritance.
- 9. Define run time polymorphism.
- 10. Define virtual function.
- 11. Define generic programming.
- 12. Differentiate the use of seekg() and tellg() functions.

Part B

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

(6x5=30)

- 13. Explain with examples: I) break Ii) continue III) goto statement
- 14. Explain how private data members are accessed and manipulated.
- 15. Illustrate dynamic initialization of objects using constructors.
- 16. Differentiate between different levels of inheritance.
- 17. Write a C++ program example to demonstrate unary operator overloading.
- 18. Describe pure virtual functions.
- 19. Explain dynamic binding with a sample program.
- 20. Explain the various file opening modes available.
- 21. Describe the try-throw-catch mechanism in C++.

Part C

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

(2x15=30)

- 22. Explain the use of constructors. Describe the different types of constructors with examples.
- 23. Describe the concept of operator overloading. Explain how they differ in case of operator function as a member function or friend function.
- 24. Explain how virtual member functions are defined and used. Discuss how pointers are used in virtual function implementation.
- 25. Explain the exception handling techniques in C++.