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Reg. No.....

Name.....

B.Sc. (COMPUTER SCIENCE) DEGREE (SPECIAL MERCY CHANCE) EXAMINATION, JANUARY 2025

Second Semester

OBJECT ORIENTED PROGRAMMING IN C++

(Prior to 2009 Admissions)

Time : Three Hours | Maximum Marks : 75

Part A

Answer any **five** *questions.*
Each question carries 3 *marks.*

1. Summarize the features of object oriented programming.
2. Recall the precedence of operators in C++ with example.
3. Write down the rules for operator overloading.
4. Comment on inheritance.
5. Define "Polymorphism".
6. Highlight the purpose of file pointers with example.

(5 × 3 = 15)

Part B

Answer any **four** *questions.*
Each question carries 5 marks.

7. What is a friend function? Why is it required? Explain with an example.
8. Differentiate between the constructor and destructor.
9. Outline the basic concept of function overloading.
10. Describe the concept of single inheritance with example.
11. Elaborate the array of pointers to objects in C++.
12. Demonstrate the different types of file modes in C++ programming.

(4 × 5 = 20)

Part C

Answer any **two** *full questions.*

Each full question carries 20 marks.

13 (a) Illustrate the basic data types available in C++ with example.

(b) Compare and construct the arithmetic, logical and relational operators in C++.

14. (a) Estimate the overloading of unary operators with example

(b) Determine the concept of multiple inheritance with simple C++ program.

15. (a) Evaluate the use of constructors in derived class in C++.

(b) Discover the pointers to derived class objects with example

16. (a) Write a C++ program to find the biggest among the N numbers.

(b) Examine the implementation of exception handling mechanism.

(2 × 20 = 40)