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BCA/D-15

OBJECT ORIENTED PROGRAMMING USING C++

PAPER: BCA-231

Time: Three Hours [Maximum Marks: 80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

Compulsory Question

1. (a) Explain the concept of static data member in C++ with suitable example.
   (b) Discuss the concept of parameterized constructors in C++ with suitable example.
   (c) What is the purpose of friend function in C++ with suitable example?
   (d) Explain various precedence rules for operators in C++ give suitable example.

UNIT-1

2 (a) what are the various features of object oriented programming language? explain these features by giving examples in C++.
(b) What is Scope Resolution operator? Explain its purpose in C++ with example.

3. (a) what are the benefit of object oriented programming language? Discuss.

   (b) what is the advantage of class over structure in C++? Explain with example.
   (c) Differentiate between Nested and Local class in C++.

UNIT-II

4. Define constructor and Destructor. How do they differ from each other in C++? Write the syntax to declare them. Write a program to compute largest among three numbers using constructor and destructor.
5. Discuss with suitable examples:
   (a) Formatted/Unformatted I/O Operations in C++
   (b) Stream Classes in C++

UNIT-III

6. How do we handle strings in C++? Explain various string handling operations operations with suitable examples.
7. Explain the following along with their significance and suitable examples.
   (a) Dynamic Memory Management
   (b) Passing Parameters of functions
   (c) This pointer.

8. (a) what is static polymorphism? Differentiate between various types of static polymorphism along with suitable examples.

   (c) Write short notes on the following:
      (i) Associatively rules for Operators in C++
      (ii) Inline functions in C++

9. Explain the concept of operator overloading in C++. Write a program to overload any one under and any one binary operator in C++.

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