Roll No.

Total Pages: 03

BT-3/D-19

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OBJECT ORIENTED PROGRAMMING USING C++

PC-IT-207 A

Time: Three Hours]

[Maximum Marks: 75

Note: All questions in Part-A and Part-B are compulsory. Attempt four questions from Part-C selecting one question from each Unit.

Part-A

- 1. (i) When do we declare the member of a Class Static?
 - (3)
 - (ii) What do you understand by Inline Function? What is the difference between Inline Function and Preprocessor Macro?
 (3)
 - (iii) What do you understand by constructor? What is a parameterized constructor? (3)
 - (iv) What is the use of this pointer? (3)
 - (v) What is Friend Function? What is the use of it? (3)

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Part-B

Unit-I

 Differentiate between private and public members of a class using suitable examples.

Unit-∏

 What is the difference between compile time and run time polymorphism? Explain using suitable examples.

Unit-III

 What is a virtual destructor? Discuss the use of virtual destructor using suitable example.

Unit-IV

 What is a function template? Distinguish between function template and overloaded functions.

Part-C

Unit-I

6. What do you understand by Data Abstraction? What is the difference between data abstraction and procedural abstraction? What are the advantages of using an object oriented approach to develop the software? (10

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7. What do you understand by Visibility Modifiers? Discuss the access control to the public, private, and protected members of a derived class in case of public derivation, private derivation, and protected derivation. (10

Unit-II

- What is Operator Overloading? What are advantages of it?
 Write a program in C++ to overload the + operator to find the sum of two matrices.
 (10)
- 9. Write a program in C++ to overload the operator to find the trace of a matrix. (10

Unit-III

- Write an object oriented program in C++ to replace the lowercase characters with uppercase and vice versa. (10
- 11. What is the difference between sequential access and random access files? Write a program in C++ to count the number of letters and digits in a sequential file. (10

Unit-IV

- Write a function template for finding the minimum value contained in an array. (10
- What is an exception? Discuss the try/throw/catch sequence.
 Explain the use of Catch-All exception handler using suitable example.

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