Exam. Code : 105702
Subject Code : 1562

B.Sc. (Information Technology) 2ⁿᵈ Semester
INTRODUCTION TO PROGRAMMING C++
Paper—IV

Time Allowed—3 Hours]   [Maximum Marks—75

Note :— Attempt any **FIVE** questions. All questions carry equal marks. The students can use only non-programmable and non-storage type calculator.

1. Explain the various characteristics of object oriented programming languages. Discuss in detail various advantages and disadvantages of object oriented programming languages.   15

2. What are the various types of operators in C++ ? What do you mean by operator precedence and associativity ? Explain giving examples.   15

3. What are the various conditional control structures available in C++ ? Explain giving suitable examples.   15

4. What do you mean by destructor ? List various properties of destructors. What are virtual destructors ? What are the rules for destructors ?   15

5. Define function overloading. How default arguments are passed to functions ? Explain giving suitable example.

15

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6. What is the purpose of friend functions and friend classes ? Explain with the help of suitable examples.

15

7. Define inheritance. What are various types of inheritance ? How ambiguity is resolved in multiple inheritances ? Explain giving suitable examples.   15

8. Write short notes on the following :

   (a) Object and Classes   5

   (b) Data hiding   5

   (c) Polymorphism.   5