Exam. Code : 105702 Subject Code : 1425

# B.Sc. (Information Technology) 2nd Semester INTRODUCTION TO PROGRAMMING-C++

# Paper-II

Time Allowed—3 Hours]

[Maximum Marks—75

Note: — Candidates are required to attempt five questions in all selecting at least one question from each section.

### SECTION—A

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

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  - 2. (a) What is a scope resolution operator? What part does it play in definition of member function? 5
    - (b) How the data members and member functions designated as private, public and protected are accessed?
    - (c) What are the nested member functions? Explain with the help of an example.

#### SECTION—B

3. What do you mean by constructor? What are various types of constructors? Discuss in detail.

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

#### SECTION—C

- 5. (a) What is function overloading? How is it desirable feature of C++?
  - (b) How can default arguments be passed to a function? Explain with the help of an example. 7.5
- 6. What is operator overloading? Why is it necessary to overload an operator? How many arguments are required in the definition of an overload unary operator? Explain with an example.

## SECTION—D

- 7. Define inheritance. What are the various types of inheritance? Explain giving examples.
- 8. Write short notes on the following:
  - (a) Virtual function 5
  - (b) Friend function 5
  - (c) Static function. 5