# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc.** DEGREE EXAMINATION – **COMPUTER SCIENCE**

THIRD SEMESTER – NOVEMBER 2011

## CS 3502 - OBJECT ORIENTED PROGRAMMING WITH C++

Date : 01-11-2011          Dept. No.                    Max. : 100 Marks
Time : 9:00 - 12:00

## PART – A

**Answer all the Questions** (10x2=20)

1. What is cast operator?

2. What is scope resolution operator in c++?

3. What is constructor?

4. Define polymorphism.

5. Differentiate super class and sub class?

6. Define pointers?

7. Define getline() function?

8. What is Source file?

9. Write down the use of "this" operator.

10. What is Virtual name?

## PART – B

**Answer ALL the Questions** (5x8=40)

11. a. Expalin enumerated datatype with an example.
          (or)
     b. Explain Inline functions?

12. a. Explain copy constructor with example?
          (or)
     b. Write a notes on Type conversion?

13. a. Explain a.Multiple inheritance b.Multilevel inheritance. with examples.
          (or)
     b. Explain Virtual functions with example?

14. a. Write a short notes on  overloading unary operator in c++.
          (or)
     b. Explain error handling during file operations.

15. a. Explain member function templates?

               (or)

   b. Explain exception handling mechanism?

## PART – C

**Answer any TWO questions:**                                 **(2x20=40)**

16. a. Explain the various concepts of object oriented programming and its advantages?

   b. Explain call by reference and call value?

17. a. Explain dynamic constructor in a class?

   b. Explain virtual base classes with example.

18. a. Explain class templates?

   b. Write a c++ program to open a file and read data from the file?

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