**G 679**
(Pages : 2)

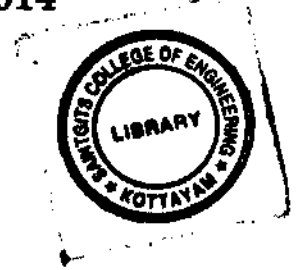# B.TECH. DEGREE EXAMINATION, MAY 2014

## Seventh Semester

Branch : Electrical and Electronics Engineering

OBJECT ORIENTED PROGRAMMING (Elective I) (E)

(Old Scheme – Prior to 2010 Admissions)

[Supplementary]

Time : Three Hours

Maximum : 100 Marks

## Part A

*Answer all questions.*

*Each question carries 4 marks.*

1. Express neatly the difference between Private and Public members used in classes.

2. Explain neatly the concept of inheritance with proper examples.

3. Explain the overloading of binary operators.

4. Explain the properties and uses of static variables.

5. Explain the syntax of constructors and destructors while declaring in C++.

6. Explain the use of Friend functions and how is it different from normally used functions.

7. Differentiate Privately and Publicly derived visibility modes.

8. Give the method of ending of files in C++. Give proper examples.

9. What is meant by dynamic memory allocation?

10. What is meant by 'this' pointer?

(10 × 4 = 40 marks)

## Part B

*Answer all questions.*

*Each question carries 12 marks.*

11. Neatly explain the concept of object oriented languages with proper examples.

*Or*

12. Define Class and explain its syntax, declaration and its use in programming.

13. Illustrate a C++ programming to demonstrate calling functions by "Call by reference" of arguments of objects.

*Or*

**Turn over**

14. Illustrate a C++ program to demonstrate function returning object.

15. With example, describe the concept of function overloading.

*Or*

16. Explain the concept of polymorphism with proper examples. How is it implemented in C++?

17. Explain the following file operations in C++ :

    (a) Open ( ).

    (b) Close ( ).

    (c) Read ( ).

    (d) Write ( ).

*Or*

18. What is meant by multilevel inheritance? How is it implemented in C++?

19. Explain in term run time polymorphism. How is it implemented in C++ ?

*Or*

20. Explain the different methods to access member functions using object pointers in C++.

(5 × 12 = 60 marks)