

**B. Tech. IV Semester (Main /Back) Examination 2012**  
**Common for Computer and IT Computer Science**  
**4CS3 Object Oriented Programming**

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 24

**Instructions to Candidates:**

*Attempt any five questions selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly).*

**Unit - I**

1. a) What do you understand by Object Oriented Programming? Describe all characteristics of Object Oriented Programming.
- b) What do you mean by functional programming? What programming style is used to write a program in functional programming.

**OR**

2. a) Explain concepts of event-driven programming. What are the characteristics of event-driven programming.
- b) What are the principles of parallel computing. Give description of use of parallel computing.

**Unit - II**

3. a) What is data abstraction? How it is used in Object Oriented Programming.
- b) Describe compile time polymorphism and Run time polymorphism.

**OR**

4. a) Describe all types of constructors with suitable examples.
- b) What is class in Object Oriented Programming? How it is different from structure?

**Unit - III**

5. a) What is friend function? How private data members are accessed by outside the class, give its suitable example (Program).
- b) What is function overloading? Write any program to overload two functions.