

Roll No

MCTA - 103**M.E./M.Tech., I Semester**

Examination, December 2015

Object Oriented Modeling and UML**Time : Three Hours****Maximum Marks : 70****Note :** Attempt any five questions. All questions carry equal marks.

1. a) What is meant by Object-Oriented modeling and design? Also differentiate it with structured approach.
b) Explain Generalization and Aggregation with suitable example and sketch.
2. a) Explain Object oriented concepts like Encapsulation, Polymorphism and Inheritance with suitable example.
b) Design and implement the Object Oriented Model by using UML.
3. a) Discuss with an example the three different techniques of OMT model.
b) What is a thread? What is the difference between multiprocessing and multithreading?
4. Explain the following with suitable example :
 - a) Link and Association
 - b) Use Case Diagram
 - c) Sequence Diagram
 - d) State Model

5. a) What are Events? Describe Signal Event, Change Event and Time Event with suitable example.
b) What is Interaction diagram? Explain using suitable example and diagram.
6. Describe Activity Model in brief. Also sketch the activity diagram for Stock Trade Processing System using proper sketch.
7. Explain the term Architectural Modeling. Also describe the terms Collaborations and pattern framework using proper example and sketch.
8. a) What do you mean by Common Object Request Broker Architecture (CORBA)? Explain using proper example.
b) Explain Deployment diagram using one suitable example.
