

Roll No .....

**MCTA-103**

**M.E./M.Tech., I Semester**

Examination, December 2016

**Object Oriented Modeling and UML**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** Attempt any five questions. Each question carry equal marks.

1. a) What is multiple inheritance and what are its associated problems? 7  
b) Explain the purpose of sequence diagram and activity diagram with the help of some suitable example. 7
2. What is class diagram? Draw for simple arithmetic expression. Also draw its instance diagram. 14
3. a) Why is it necessary to have variety of diagrams in a model of a system? 7  
b) Explain state machines and state chart diagrams? 7
4. Explain the features of CORBA. How do client and server objects communicate using CORBA? 14
5. a) What is deployment diagrams? Explain with an example. 7  
b) Explain use case model with an suitable example. 7

6. a) Prepare a use case diagram and sequence diagram for an online airline reservation system. 7  
b) Discuss the concept of process, threats and events. 7
7. a) Discuss the concept of Interfaces and packages with suitable example. 7  
b) Explain following term : 7  
i) UML  
ii) Java beans
8. Write a short notes (any Two) : 2×7=14  
a) Collaborations  
b) Advance classes  
c) Behavioral modelling

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