

Roll No .....

**MCSE/MSE - 104**  
**M.E./M.Tech., I Semester**  
 Examination, June 2013  
**Object Oriented Technology**

Time : Three Hours

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Maximum Marks : 70

**Note:** Attempt any five questions. All questions carry equal marks.

1. a) Explain objects oriented methodology in brief? Explain term Modeling in concern with object oriented methodology?  
 b) Explain different models and relationship between them used in object modeling technique (OMT) with proper examples and diagrams?
2. a) Prepare object diagram showing at least six relationships among the following object classes, include associations, aggregations?  
 i) School, playground, principal, classroom, book, student, teacher, cafeteria, restroom, computer, desk, chair, ruler, door, swing.  
 ii) Sink, freezer, refrigerator, table, light, switch, window, smoke alarm, burglar alarm, cabinet, bread, cheese, ice, door, kitchen.  
 b) Explain aggregation, abstract classes association and triggering and its types with examples?

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3. a) Explain links, homomorphism and association with example? Prepare an object diagram for a graphical document editor that supports grouping, which is a concept used in variety of graphical editors?  
 b) Explain dynamic modeling under following points:  
 i) Events                      ii) States  
 iii) Operations              iv) Entry and exit actions.

4. a) What are data flow diagrams and explain data flows and data store? Discuss several ways of implementing the data flow diagram?  
 b) Prepare a data flow diagram for computing the volume and surface area of a cylinder. Inputs are the height and radius of cylinder. Outputs are volume and surface area.

5. a) Explain functional modeling and draw an event trace diagram for ATM scenario and phone call scenario?  
 b) Explain system design life cycle in object oriented design?

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6. a) Explain Object oriented Databases? What is difference between Relational v/s object oriented databases?  
 b) How query language is used for object oriented databases? Draw architecture of object oriented databases?
7. Explain distributed object oriented system and also explain object management group?
8. Write short notes on :  
 i) Gemstone/O2/orion  
 ii) Files and stream in object oriented methodology  
 iii) COBRA  
 iv) System design life cycle.

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