

Roll No .....

**MCIT-103**  
**M.E./M.Tech., I Semester**  
 Examination, December 2015  
**Object Oriented Technology**

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.  
 ii) All questions carry equal marks.

1. Answer all of the following :
  - a) What is a model? Give an example. What purpose does it serve? Explain.
  - b) What is an association end? What are the properties of an association end? Explain with a diagram, how an association class participates in another association?
2. What is UML and its need? Name basic building blocks of UML? Discuss in detail the object architecture of UML.
3. Answer all of the following :
  - a) What do you mean by concurrency? Explain the different types of concurrency among objects.
  - b) Explain the sequence of well-defined development stages of a software development process.

4. Answer all of the following :
  - a) What are the phases of OMT? Briefly describe each phase with suitable example.
  - b) Explain and list the strength of Jacobson methodology.
5. Answer all of the following :
  - a) State and explain User Interface Design Rules.
  - b) What is an OODBMS? Compare it with DBMS, and define distributed databases with suitable example.
6. Answer all of the following :
  - a) Explain the different tasks involved in design optimization.
  - b) Write short notes on:
    - i) Reverse engineering Vs forward engineering
    - ii) Wrapping.
7. Answer all of the following :
  - a) Describe the three categories of pattern.
  - b) With a neat diagram, explain the dynamics of client: Dispatcher server design pattern.
8. Draw a complete UML class-diagram
  - i) For bank ATM system.
  - ii) List the object-oriented design axioms and corollaries and explain relationship between coupling and cohesion.
  - iii) Explain the object-oriented design process in the unified approach.

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