Code :RR310506 **RR**

III B.Tech I Semester(RR) Supplementary Examinations, May 2011
OBJECT ORIENTED ANALYSIS & DESIGN THROUGH UML
(Computer Science & Engineering, Information Technology)

Time: 3 hours **Max Marks: 80**

Answer any FIVE questions
All questions carry equal marks

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1. (a) What is the significance of private, public and protected access specifiers?
   (b) Define: encapsulation, abstraction. Can one exist in the absence of the other? Justify your answer.
   (c) How are objects and classes identified from a given problem description?
2. (a) What are the various views considered in modeling a system's architecture? Explain.
   (b) What is the UML approach to software development life cycle? Explain the various phases.
3. (a) Contrast interface inheritance with class inheritance.
   (b) Define interface. Contrast it with abstract class.
   (c) How do you inter relate interfaces, types and roles?
4. (a) Enumerate the steps to reverse engineer a class diagram.
   (b) Enumerate the steps to model object structures.
5. (a) Explain forward engineering and reverse engineering in respect of interaction diagrams.
   (b) Distinguish sequence diagrams from collaboration diagrams.
   (c) What is meant by semantic equivalence between the two kinds of intersection diagrams?
6. (a) What are the properties of well-structured use cases?
   (b) Enumerate the steps to model the requirements of a system.
   (c) Consider a retail system that interacts with customers who place and track orders. In turn, the system will ship orders and bill the customers. Model the behavior of the system will ship orders and bill the customers. Model the behavior of the system by declaring the behaviors as use cases.
7. (a) What area various parts of a transition. Explain briefly.
   (b) Define event and signal. What are the four kinds of events modeled by UML?
8. (a) What are the properties of a well-structured component diagram?
   (b) What are the contents, common properties and common uses of component diagrams? Explain briefly.

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