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IT-701**B.E. VII Semester**

Examination, December 2013

Object Oriented Analysis & Design**Time : Three Hours****Maximum Marks : 70****Note:** Attempt all questions. Each question carry equal marks.

1. a) Describe the mechanism of accessing data members and member functions in the following cases:
 - Inside the main program
 - Inside a member function of the same class
 - Inside a member function of another class.
- b) What are the different forms of inheritance? Give an example of each.

OR

2. a) How is Polymorphism achieved at
 - Compile time, and
 - Run time
 - b) In what order are the class constructor's called when a derived class object is created?
3. a) Define relationship. Explain the four adornments that apply to an association.
 - b) Enumerate the steps to model single inheritance.
 - c) Enumerate the steps to model using relationship.

OR

4. a) Draw a class diagram of business objects in the design model and explain.

- b) Enumerate the steps to model inner process communication
- c) What is object diagram?

5. a) A retail system will interact with customers who place and track orders. Give UML diagram that uses various use cases.
- b) Enumerate the properties of well-structural use case.
- c) Define use case. Enumerate the steps to model the behaviour of an element.

OR

6. a) Define interaction. What is the significance of context in interactions?
 - b) What are the various adornments to ends of links denoted as standard stereotypes? Explain about objects and roles.
7. a) Giving appropriate illustrative UML diagrams, enumerate the steps to model the following:
 - i) Physical data base
 - ii) Source code
 - b) Explain the following parts of a transition
 - i) Event trigger.
 - ii) Guard condition.

OR

8. a) Draw and explain sequence diagram for the search facility of the objects, so that "wild card" characters can be used when searching for titles, authors, or borrowers.
 - b) Write Java program for the search facility.
9. a) Write a Java program for the Loan class
 - b) Draw a deployment diagram for the library system
 - c) Draw activity diagram to inform a person when a loan is due.

OR

10. Describe the following with suitable diagram:

- a) Activity diagram
- b) Component diagram
- c) Deployment diagram
- d) Use case diagram

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