MCTA-103

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

Examination, June-2013

Object Oriented Modeling and UML

Time : Three Hours

Maximum Marks : 70

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

1. a) Explain the limitation of procedural programming. Also show these are overcome by object oriented programming with example.

   b) Explain aggregation and association with suitable examples. Also describe what is container class.

2. a) Explain how reusability is derived by inheritance. Give suitable example.

   b) Show that idea of interface is supported by polymorphism.

   c) Define various kinds of class relationship in UML. Also give the notations for them.

3. a) What do you mean by class diagram. Define its content and purpose. Also draw a class diagram for school management having classes. School, Department, Course, Student and Instructor.

   b) Define the need of structural modeling. Which are the different diagrams are used to structure of system in UML

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4. a) Describe the various kinds of relationship exists between classes with example.

   b) What do you mean by Instance. Explain the steps to model a instance in a system.

5. a) Define uses case diagram and its purpose. Also draw a use case diagram for railway reservation system.

   b) What are different content of Interaction diagram. Draw the interaction diagram sales order system application.

6. a) How many different way an activity diagram can model the dynamic aspect of system. Explain with example.

   b) What do you mean by state of an object. Define its various parts. Also draw state diagram for an air conditioner system.

7. a) What are the components of deployment model. Also define its purpose?

   b) How many different ways you can use a component diagram. Explain each with example.

8. Write short notes on :

   a) CORBA

   b) Java beans

   c) Sequence diagram

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