MCIT-103

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

Examination, June 2013

Object Oriented Technology

Time : Three Hours

Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks. Assume Data/valve if required?

1. a) What is the difference between an ADT and object class? How can you implement an ADT as object class? Give an example.

   b) What do you mean by reusability? How is it useful? Discuss its in case of C++.

2. Create two or three classes linked by Associations to represent the situations below. Take care to specify appropriate multiplicity, as well as labels for the associations. If there is more than one reasonable alternative, explain the Advantages and Disadvantages of each.

   a) Vehicles possessing wheels

   b) Countries and their heads of state.

3. a) Describe about object-oriented database system data model.

   b) Explain about the CORBA.

4. Draw sequence diagrams representing the following interactions.

   A client searches for a book in a library. He or she then asks to borrow the book. If a copy of this book is available, a loan object is created.

5. Sketch a possible Architecture for the following systems. It will be helpful first to sketch the most important use cases. Describe which architectural patterns you are using.

   A corporate payroll system. All the information about employees, including their monthly salary and bank account, is kept in a database. Every two weeks, the system pays employees by depositing their salary in their bank account.

6. a) Explain about distributed object computing.

   b) Describe standards for middleware.

7. Write short notes on :

   i) Behavioral modelling

   ii) Query language.

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