Roll No ....

MCTA - 103

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

Examination, June 2014

Object Oriented Modeling and UML

Time : Three Hours

Maximum Marks : 70

Note : Attempt any five questions.

1. a) How does object oriented methodology differ from other programming methodologies? Explain with an example. 7

   b) Define various class relationships in UML. Explain briefly each of them with suitable example. 7

2. a) Explain, what idea is derived using polymorphism? Also write the different form of polymorphism. 7

   b) Differentiate between abstraction and Encapsulation with suitable example. 7

3. a) Enumerate the steps in drawing a class diagram and object diagram. Discuss them with suitable example. 7

   b) Explain Dependency. Association. Generalization relationship with suitable examples. 7

4. a) Describe the classes and interfaces require for library management system. specify relationship between them. 7

   b) What is meant by object diagram? Discuss its significance in modeling a software project. 7

5. a) Discuss about the UML diagrams which can be used to model dynamic aspects of a system. 7

   b) What is state chart diagram. Explain its purpose with example. 7

6. a) Draw a sequence diagram for withdrawing money from an ATM. Convert same into collaboration diagram. 7

   b) Define even and signal. What are four kinds of events. which can be modeled by UML? Explain briefly. 7

7. a) What is meant by implementation view? Discuss the diagrams that can be used to model static and dynamic aspect of this view. 7

   b) Draw the diagram (block) of CORBA. explain it in detail. 7

8. a) Define deployment diagram? Explain its purpose in designing a software package. 7

   b) What is exception handling on Java? Why it is important? Explain its working. 7

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