

MCA/D-16
OBJECT ORIENTED ANALYSIS AND DESIGN USING UML
Paper : MCA-14-31
(Group-I)
Opt. (i)

Time Allowed: 3 Hours

Maximum Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. Explain the following:
 - (i) Sequence Diagram
 - (ii) Link attributes and Link classes
 - (iii) Relationship between class and state model
 - (iv) Handling global resources in system design.

Unit-I

2. Explain the following relationships in UML :
 - (a) Association
 - (b) Generalization
 - (c) Dependency
3. What are Actors ? What is the significance of use-case diagrams? Explain their different characteristics with example.

Unit-II

4. How modeling is useful in design? Explain with suitable case study.
5. Explain and differentiate Generalization and Inheritance with suitable example.

Unit-III

6. What are State Diagrams? What is their significance? Explain transitions and conditions available in state modeling
7. What are use case relationships? Explain procedural sequence models.

Unit-IV

8. Explain system development model stages in system analysis and design.
9. Explain the followings:
 - (a) Handling boundary conditions in system design
 - (b) Organizing classes and associations in class design.