

III B. TECH II SEMESTER REGULAR EXAMINATIONS MAY - 2023
OBJECT ORIENTED ANALYSIS AND DESIGN USING UML
(COMPUTER SCIENCE ENGINEERING)

Time: 3 hours

Max. Marks: 70

Note: Answer **ONE** question from each unit (**5 × 14 = 70 Marks**)

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UNIT-I

1. a) Define the basic building blocks of UML explain in detail. [7M]  
b) Explain the importance of modeling. [7M]

(OR)

2. a) Explain the Conceptual model of UML Architecture. [7M]  
b) Explain Inherent Complexity of Software in detail. [7M]

UNIT-II

3. a) Develop the class diagram for online railway reservation system. [7M]  
b) Describe the role of classes and objects in analysis and design. [7M]

(OR)

4. a) Describe briefly about association classes and association role in class diagrams. [7M]  
b) Explain Reverse Engineering in Class diagrams. [7M]

UNIT-III

5. a) Build the Use case diagram in detail with suitable example? [10M]  
b) Distinguish between sequence and collaboration diagram [4M]

(OR)

6. a) Explain in details of Activity diagram with an example? [7M]  
b) Explain Roles, links, messages, actions, and sequences of interactions. [7M]

UNIT-IV

7. a) Explain the terms and concepts of events? [7M]  
b) How to model a reactive objects by using state chart diagram? [7M]

(OR)

8. a) List the Common modeling techniques for processes and threads. [4M]  
b) Justify and describe the terms and concepts of Time and Space? [10M]

UNIT-V

9. a) Design a Component Diagram for ATM System. [7M]  
b) Explain modeling source code and modeling an executable release. [7M]

(OR)

10. a) Explain the Deployment diagrams in detail with example. [10M]  
b) Explain different kinds of components with suitable examples. [4 M]

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