**Object Oriented Modeling and Design [12260] Question Bank**

**Third Year Computer and Information Technology**

**CHAPTER 1**

1. Describe Booch Methodology.
2. Explain Object Modeling Technique (OMT) by Rambaugh.
3. What is modeling? What are four principles of modeling?
4. Describe CRC card method by Cunningham.
5. State the importance of Modeling in UML.
6. Describe Use case driven approach of Jacobson.

**CHAPTER 2**

1. What is recursion aggregates? Explain propagation of operation with example.
2. Differentiate between aggregation and association.
3. Draw and explain the term candidate keys.
4. Explain abstract classes.
5. Explain Dynamic and functional modeling.
6. Explain advanced link and association concepts.
7. How to apply constraints in class diagram?
8. Define following terms with suitable example
   1. Object
   2. Classes
   3. Object diagram
   4. Attributes.
9. Explain the concept of Generalization and Inheritance with suitable example.
10. Describe Qualification and Role Name with suitable example.
11. Describe Recursive Aggregates with proper diagram.
12. Explain the term Multiple Inheritance with example.
13. What is Dynamic Model? State its purpose with suitable example.
14. Describe Propagation of Operation with suitable example.
15. Draw Object diagram for Hospital Management System.
16. What is object diagram? Explain with suitable example.
17. Draw the appropriate symbols and write suitable example for following:

(1) Role Name

(2) Multiplicity (Cardinality)

(3) Ordering

1. Explain the following terms:

1) Class 2) Object 3) Aggregation 4) Multiple inheritance 5)Link and multiplicity.

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**CHAPTER 3**

1. Explain different kind of relationships in UML.
2. State and explain things in UML
3. Explain software development life cycle (SDLC) of UML
4. Explain Architectural Meta Model of UML.
5. List Six UML diagrams and state purpose of each.
6. Describe Structural and Behavioral things in Conceptual Model of UML.
7. Write any four usage of UML.

**CHAPTER 4**

1. Differentiate between sequence and collaboration system.
2. Explain sequence diagram.
3. Define and explain packages with one suitable example
4. Draw and explain reside dependencies for packages and subsystem.
5. Describe the concept of concurrency.
6. Describe the concept of Interface with suitable example.
7. Explain components and their types.
8. How to use ‘types’ in Advanced Class diagram.
9. Explain collaboration diagram with suitable example.

**CHAPTER 5**

1. Explain transitions and their types in activity diagram.
2. Draw component diagram for Library Management System.
3. Describe Branching and Forking in Activity diagram.
4. Explain components of State Chart diagram with example.
5. Describe Deployment diagram with suitable example.
6. Draw and explain state chart diagram for ATM.
7. What is Meta data? Give its examples.
8. Explain the following terms under activity diagram

1. Action state

2. Activity states

3. Transition

4. Branching

**DIAGRAMS**

1. Draw deployment diagram of a network in your college.
2. Draw activity diagram for withdrawing money from bank through cheque.
3. Draw state chart diagram for railway reservation system.
4. Draw Object diagram for you college admission process.
5. Draw a use case diagram for fire Alarm system.
6. Draw Activity diagram for withdrawing money from ATM.
7. Draw Component diagram for ATM system.
8. Draw class diagram for inventory system.
9. Draw Sequence diagram for telephone (Landline) dialing and Explain consider all possible states.
10. Draw use case diagram of library system.
11. Draw a Class diagram for different dimensional figures on window screen.
12. Draw Sequence diagram for issuing books and returning books from library.
13. Draw a Class diagram for issuing and returning books from library.
14. Draw Class diagram for railway reservation system.
15. Draw Sequence diagram for placing purchase order.
16. Draw class diagram, use case diagram for Library Management System
17. Draw use case diagram for railway reservation system.
18. Draw the activity diagram for College Library system.
19. Draw Class diagram for ATM system.
20. Draw the use case diagram for Airline Reservation System.