SIDDHARTH GROUP OF INSTITUTIONS::PUTTUR
Siddharth Nagar, Narayanavanam Road – 517583
QUESTION BANK (DESCRIPTIVE)

Subject with Code: Object Oriented Analysis and Design (16CS526)

Course & Branch: B.Tech - CSE   **Year & Sem:** III B.Tech & II Sem
Regulation: R16

UNIT –I

1. a) Explain the importance of modeling.   [L2,6M]

   b) List out the principles of modeling in detail and explain it.   [L4,6M]

2. a) Explain object oriented modeling.   [L2,5M]

   b) Elaborate the conceptual model of the UML?   [L3,7M]

3. a) Categorize the software development life cycle in detail.   [L4,6M]

   b) Explain the structural modeling.   [L2,6M]

4. a) Compare and evaluate the behavioural things in the model.   [L5,6M]

   b) Distinguish and classify the grouping things in UML   [L4,6M]

5. a) Explain the relationships in the UML.   [L2,6M]

   b) Summarize the diagrams in the UML?   [L2,6M]

6. a) Explain the common mechanisms in the UML.   [L2,8M]

   b) Assess an overview of UML.   [L5,4M]

7. a) What are rules of the unified modeling language?   [L1,4M]

   b) Explain the Modeling system architecture of UML?   [L2,8M]

8. .Define a model. Explain the (a)importance (b)principles of modeling.   [L1,12M]

9. Compare software development life cycle models with suitable example?   [L5,12M]

10. Explain the building blocks of the UML   [L2,12M]

UNIT-II

1. a) Recall the terms and concepts of classes. [L1,6M]

   b) Summarize responsibilities of classes. [L2,6M]

2. List out the common modeling techniques for classes? [L4,12M]

3. a) Explain Modeling the Distribution of Responsibilities in a System. [L2,6M]

   b) Explain Modeling of Non software Things . [L2,4M]

4. List out the Terms and Concepts of relationships [L4,12M]

5. a) Explain Modeling Single Inheritance. [L2,6M]

   b) Explain the Modeling Structural Relationships [L5,6M]

6. Explain Stereotypes, tagged values, and constraints with examples. [L2,12M]

7. a) What is Modeling in new semantics? [L1,6M]

   b) Explain the Modeling New Building Blocks. [L2,6M]

8. a) Compare advanced structural modeling with basic structural modeling? [L5,8M]

   b) Explain the importance of advanced classes? [L2,4M]

9. a) Explain advanced relationships with examples. [L2,8M]

   b) Identify the importance of interfaces and their roles? [L3,4M]

10. a) Explain the Interfaces, types, roles, and realization. [L2,8M]

   b) Explain the importance of packages in the UML with examples. [L2,4M]

UNIT-III

1. Explain the terms and concepts of Class diagram with suitable examples.   [L2,12M]

2. Explain the terms and concepts of Object diagram with suitable examples   [L2,12M]

3. a) Explain Roles, links, messages, actions, and sequences of interactions.   [L2,6M]

   b) Build the Modeling flows of control.   [L6,4M]

4. a) Explain the terms and concepts of interaction diagrams.   [L2,6M]

   b) Distinguish between sequence and collaboration diagram   [L4,4M]

5. a)Explain sequence diagram with an example?   [L2,6M]

   b) Explain collaboration diagram with an example?   [L2,6M]

6. a)Explain in details of Use cases, actors, include, and extend with suitable example?   [L2,7M]

   b) Design an use case diagram to show ATM system   [L5,5M]

7. a) Explain the terms and concepts of Use Case diagrams.   [L2,8M]

   b) Design an use case diagram to show a cellular phone system   [L5,4M]

8. a) Explain in details of activity diagram   [L2,7M]

   b) Design an Activity diagram for hostel management   [L5,5M]

9. Build a of Use case diagram in detail with suitable example?   [L2,12M]

10. Explain in details of activity diagram with suitable example?   [L2,12M]

UNIT-IV

1. Explain the terms and concepts of events?   [L2,12M]

2. a) What is States, transitions, and activities?   [L1,6M]

   b) Explain the importance of modeling the lifetime of an object.   [L2,6M]

3. a) Explain the Active objects, processes, and threads.   [L2,6M]

   b) List out modeling multiple flows of control.   [L4,6M]

4. a) List the term and concepts of processes and threads   [L4,6M]

   b) List the Common modeling techniques for processes and threads   [L4,6M]

5. a) Explain the terms and concepts of state machines?   [L2,6M]

   b) Explain the Advanced States and Transitions.   [L2,6M]

6. a) justify and describe the terms and concepts of Time and Space?   [L5,4M]

   b) explain modeling timing constraints?   [L5,6M]

7. a) How many types of Modeling objects that migrate?   [L1,6M]

   b) What is Transitions and explain it clearly.   [L1,6M]

8. a) Explain Modeling interposes communication?   [L2,6M]

   b) Make use the Synchronization and justify the technique behind it?   [L3,6M]

9. a) Explain the terms and concepts of state chart diagrams?   [L2,6M]

   b) Explain the common modeling techniques for state chart diagrams   [L2,6M]

10. Explain the common modeling techniques for state chart diagrams with suitable example.

                                                                                       [L2,12M]

UNIT-V

1. a) What are the Components, interfaces, and realization?   [L1,6M]

   b) Explain the Modeling executables and libraries.   [L2,6M]

2. a) Distinguish and explain Modeling tables, files, and documents?   [L3,6M]

   b) Apply the technique behind Modeling source code and explain?   [L3,6M]

3. a) Elaborate Modeling an API?   [L5,6M]

   b) Explain Mapping between logical and physical models.   [L2,6M]

4. a) Explain the terms and concepts of Component diagrams?   [L2,6M]

   b) Explain the importance of Deployment diagram.   [L2,6M]

5. a) Explain terms and concepts of Deployment diagram.   [L2,6M]

   b) Explain the importance of Component diagrams.   [L2, 6M]

6 . Explain the common modeling techniques for Component diagrams   [L2,12M]

7. Explain the common modeling techniques for Deployment diagrams   [L2,12M]

8. a) Justify the term Standard Elements in Components?   [L5,6M]

   b) Design an Component diagram for hostel management   [L5,6M]

9. a) Design an Component Diagram for ATM System   [L5,6M]

   b) Design an Deployment Diagram for College Management System   [L5,6M]

10. Explain the unified library application in detail.   [L2,12M]