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

<u>UNIT –I</u>

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]
8Define 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]

<u>UNIT-II</u>

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]

<u>UNIT-III</u>

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]

<u>UNIT-IV</u>

	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		nple.
		[L2,12M]

<u>UNIT-V</u>

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]