Course Code: 18MC9136 **R18**

SIDDHARTH GROUP OF INSTITUTIONS:: PUTTUR
(AUTONOMOUS)
Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code: Object Oriented Analysis And Design Using UML(18MC9136)

Course & Branch: MCA

Regulation: R18

Year & Sem: III-MCA & I-Sem

UNIT –I
INTRODUCTION TO UML

1	**a)**	Explain the importance of modeling.	[L2][CO1]	**[06M]**
	b)	Clearly explain principles of modeling.	[L2][CO1]	**[06M]**
2		Briefly explain object oriented modeling.	[L5][CO2]	**[12M]**
3		Clearly explain software development life cycle.	[L2][CO1]	**[12M]**
4	a)	Explain the architecture of UML.	[L5][CO1]	**[06M]**
	b)	What are the importances of modeling.	[L1][CO1]	**[06M]**
5		How the object oriented modeling is important? Discuss.	[L1][CO2]	**[12M]**
6		Explain the conceptual model of the UML.	[L2][CO1]	**[12M]**
7		Define modeling. Describe the architecture.	[L1,L5][CO1]	**[12M]**
8		Identify and explain the role of conceptual model.	[L3][CO1]	**[12M]**
9		List out the principles of modeling. Discuss about software development life cycle.	[L4,L6][CO1]	**[12M]**
10		Discuss about object oriented modeling and conceptual model.	[L6][CO2]	**[12M]**

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UNIT –II

BASIC STRUCTURAL MODELING AND ADVANCED STRUCTURAL MODELING

1	Write a brief description on Classes and relationships.	[L6][CO2]	[12M]
2	Clearly explain the common mechanisms in basic structural modeling.	[L2][CO3]	[12M]
3	a) Write a brief note on advanced classes.	[L5][CO2]	[06M]
	b) Explain advanced relationships.	[L5][CO2]	[06M]
4	a) Write a brief description on interfaces in advanced structural modeling.	[L2][CO2]	[06M]
	b) What are the types and roles? Explain.	[L1,L2][CO2]	[06M]
5	Define Package. Explain the importance of package.	[L6][CO2]	[12M]
6	Listout advanced relationships and explain them.	[L4][CO2]	[12M]
7	a) Describe the types and roles.	[L2][CO2]	[06M]
	b) Discuss about ER diagram.	[L6][CO2]	[06M]
8	List out the modeling techniques for Class and object diagrams. Explain.	[L2][CO2]	[12M]
9	Briefly explain advanced structural modeling.	[L3][CO2]	[12M]
10	a) Write a short note on Common mechanisms.	[L2][CO2]	[06M]
	b) Discuss about relationships.	[L6][CO2]	[06M]

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UNIT –III

CLASS ,OBJECT DIAGRAMS AND BASIC BEHAVIORAL MODELING

1		What are the terms and concepts of class and object diagrams? Explain.	[L1,L2][CO3]	[12M]
2		What are the modeling techniques for class and object diagrams? Explain.	[L1,L2][CO3]	[12M]
3		Briefly discuss about Class and object diagrams by constructing examples.	[L6][CO3]	[12M]
4	a)	Define an Interaction.	[L1][CO3]	[02M]
	b)	Explain interaction diagrams with neat sketch.	[L5][CO3]	[10M]
5	a)	What are the importances of Usecase diagram?	[L1][CO3]	[06M]
	b)	Explain use case diagram with library management system.	[L2][CO3]	[06M]
6	a)	How the activity diagram useful?	[L1][CO3]	[06M]
	b)	Explain activity diagram with example.	[L2][CO3]	[06M]
7	a)	What are the importances of Basic behavioral modeling.	[L1][CO3]	[06M]
	b)	Explain interaction diagram with example.	[L2][CO3]	[06M]
8		List out the modeling techniques for collaboration diagram and explain with your own example.	[L4][CO3]	[12M]
9		Build your own example for use case diagram and explain.	[L3][CO3]	[12M]
10	a)	Build example diagram for sequence diagram.	[L3][CO3]	[06M]
	b)	Construct and explain collaboration diagram with your own example.	[L6][CO3]	[06M]

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UNIT –IV

ADVANCED BEHAVIORAL MODELING

1	a)	Define and explain events & signals.	[L1,L2][CO1]	[06M]
	b)	Explain state machines.	[L2][CO1]	[06M]
2		Briefly explain processes and threads.	[L5][CO1]	[12M]
3		What is signal? Explain state chart diagrams.	[L1,L2][CO1]	[12M]
4	a)	What are the uses of state chart diagram?	[L1][CO1]	[06M]
	b)	Construct example diagram for statechart diagram and explain.	[L3][CO3]	[06M]
5		Discuss about architectural modeling.	[L6][CO1]	[12M]
6		Construct and explain Component diagram with example.	[L3][CO3]	[12M]
7		Build and explain example diagram for Deployment diagram.	[L2,L3][CO3]	[12M]
8	a)	Identify the modeling techniques for deployment diagram.	[L3][CO1]	[12M]
	b)	How can construct component diagrams.	[L1][CO3]	[12M]
9		Listout uses, modeling techniques for statechart diagram and explain with example.	[L4][CO1]	[12M]
10		Explain the following. a) Component diagram b) Deployment diagram	[L5][CO3]	[12M]

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UNIT –V

PATTERNS AND FRAMEWORKS, ARIFACT DIAGRAMS

1		What are the patterns and frameworks in UML? Explain.	[L1,L2][CO4]	[12M]
2	a)	Define patterns in UML.	[L1][CO4]	[04M]
	b)	List out and explain patterns.	[L4][CO4]	[08M]
3		What are the frameworks used in UML? Explain.	[L1,L2][CO4]	[12M]
4	a)	Briefly explain patterns.	[L2][CO4]	[03M]
	b)	Discuss about frameworks.	[L6][CO4]	[09M]
5		Discuss about the unified real time application.	[L6][CO4]	[12M]
6	a)	What is real time application?	[L1][CO4]	[02M]
	b)	What are the examples for real time application? Give brief description on that.	[L1,L5][CO4]	[10M]
7		Identify how frameworks are useful in UML? Explain.	[L3][CO4]	[12M]
8		What is pattern? Discuss the advantages of patterns in UML.	[L1,L6][CO4]	[12M]
9		How the real time application can developed by using UML?	[L1][CO4]	[12M]
10		Briefly discuss about unified real time application.	[L6][CO4]	[12M]

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