ANURAG Engineering College
(An Autonomous Institution)
III B.Tech II Semester Supplementary Examinations, December-2024
OBJECT ORIENTED ANALYSIS AND DESIGN
(COMPUTER SCIENCE AND ENGINEERING)

Time: 3 Hours   Max. Marks: 75

Section – A (Short Answer type questions)   (25 Marks)
Answer All Questions

		Course Outcome	B.T Level	Marks
1.	List various semantic rules of UML.	CO1	L1	2M
2.	Explain different principles of modeling.	CO1	L1	3M
3.	What is the purpose of class diagram?	CO2	L1	2M
4.	Where do you apply multiplicity? Explain with example.	CO2	L1	3M
5.	Define interaction and a message.	CO3	L1	2M
6.	Explain the role of actor in Use case diagram.	CO3	L1	3M
7.	What is synchronization?	CO4	L1	2M
8.	Explain different parts of a state.	CO4	L1	3M
9.	What is the difference between node and component?	CO5	L1	2M
10.	What are the similarities among components and classes?	CO5	L1	3M

Section B (Essay Questions)
Answer all questions, each question carries equal marks.   (5 X 10M = 50M)

11. A)	Apply generalization and association by giving suitable examples.	CO1	L3	10M
	OR			
B)	Examine the purpose of various behavioral diagrams.	CO1	L3	10M
12. A)	Model the hierarchy of abstract class and concrete class with an example.	CO2	L3	10M
	OR			
B)	Analyze the usage of packages and interfaces.	CO2	L3	10M
13. A)	Construct and explain interaction diagram for Library information system.	CO3	L3	10M
	OR			
B)	Build and explain activity diagram for Library information system.	CO3	L3	10M
14. A)	Examine the role of processes and threads in detail.	CO4	L3	10M
	OR			
B)	Construct and explain the life of your home's thermostat using state machine.	CO4	L3	10M
15. A)	Model and explain online reservation system using use case diagram.	CO5	L3	10M
	OR			
B)	Build and explain online reservation system using state chart diagram.	CO5	L3	10M