Question Paper Code: R18A32CS05

R18

ANURAG Engineering College

(An Autonomous Institution)

III B.Tech II Semester Supplementary Examinations, Dec–2023/Jan-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.	What is the importance of modelling?	CO1	L1	2M
2.	List the structural things in UML.	CO1	L1	3M
3.	Define class with neat sketch.	CO2	L1	2M
4.	What is relationship? List the types of relationships?	CO2	L1	3M
5.	How to depict an asynchronous message	CO3	L2	2M
6.	Distinguish between action state and activity state.	CO3	L1	3M
7.	What is the difference between process and threads	CO4	L1	2M
8.	How to model life time of an object?	CO4	L2	3M
9.	What is the intent of artifact diagrams? Explain.	CO5	L1	2M
10.	What are the properties of a well-structured component diagrams?	CO5	L1	3M

Section B (Essay Questions)

Answer all questions, each question carries equal marks. **(5 x 10M = 50M)**

11. A)	State and explain the common mechanisms in the UML.	CO1	L2	10M
	OR			
B)	Discuss about modelling systems architecture.	CO1	L3	10M
12. A)	Explain common modelling techniques of class diagram.	CO2	L2	10M
	OR			
B)	Demonstrate interfaces, types and roles with examples.	CO2	L2	10M
13. A)	Draw the use case diagram and the activity diagram for an Library management system. Summarize the purpose of each use case, actor, and its importance. Briefly explain various activity states and action states in the activity diagram.	CO3	L3	10M
	OR			
B)	Explain the following: i) Links ii) Messages iii) use case iv) Actor v) flow of events	CO3	L2	10M
14. A)	Define an event and a signal. Explain briefly about the common modelling techniques of events and signals.	CO4	L2	10M
	OR			
B)	Design State machine for different objects in library system	CO4	L3	10M
15. A)	Design Component diagram and Deployment Diagrams for library system.	CO5	L3	10M
	OR			
B)	Draw the following UML diagrams for online reservation system i) Sequence diagram ii) Deployment diagram iii) Activity diagram	CO5	L3	10M