Question Paper Code: R18A32CS03

R18

ANURAG Engineering College

(An Autonomous Institution)

III B.Tech II Semester Supplementary Examinations, December-2024

DISTRIBUTED SYSTEMS

(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.	State the challenges of the Distributed systems.	CO1	L1	2M
2.	Give an example for distributed systems.	CO1	L1	3M
3.	How events are ordering in real-time.	CO2	L1	2M
4.	Write a short note on events?	CO2	L1	3M
5.	What are the different types of group communications?	CO3	L1	2M
6.	Create distributed objects for client and server.	CO3	L1	3M
7.	What are the design and implementation issues of domain name system?	CO4	L1	2M
8.	Write a short note on the Andrew File System.	CO4	L1	3M
9.	Define Nested Transactions.	CO5	L1	2M
10.	What is Transaction Recovery.	CO5	L1	3M

Section B (Essay Questions)

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

11. A)	Explain Architectural Models of distributed systems.	CO1	L2	10M
	OR			
B)	What are the different benefits of resource sharing? Explain about its significance?	CO1	L3	10M
12. A)	Discuss how election is done when any particular system crashes?	CO2	L3	10M
	OR			
B)	Explain how Mutual Exclusion is implemented in distributed systems.	CO2	L2	10M
13. A)	Describe External Data Representation and Marshalling of RPC.	CO3	L3	10M
	OR			
B)	Demonstrate the implementation of RPC in a distributed system.	CO3	L3	10M
14. A)	Explain release consistency with an example.	CO4	L2	10M
	OR			
B)	Discuss about the File Service Architecture of Distributed File Systems.	CO4	L3	10M
15. A)	Discuss about the Optimistic concurrency control.	CO5	L3	10M
	OR			
B)	Explain how distributed deadlocks can be detected?	CO5	L2	10M