

Important Question

Chapter 1

1. Define a distributed system.(5 times)
2. What are the main characteristics (design goals or objectives or requirements) of a distributed system?(6 times)
3. Explain the need for transparency in distributed system along with the challenges in achieving that.(3 times)

Chapter 2

4. Explain RPC mechanism.(3 times)
5. Remote Method Invocation(RMI)(5 times)
6. Explain Distributed File System (DFS)(4 times)
7. Explain Sun Network File System along with features(4 times)
8. Explain the operation of SUN NFS with its architecture.(4 times)
9. Explain DNS is a distributed hierarchical database along with the working mechanism.(4 times)
10. Difference between RMI & RPC(3 times)

Chapter 3

11. Explain monolithic kernel.(4 times)
12. Explain microkernel.(3 times)

Chapter 4

13. Explain role of middleware in DS(3 times)
14. What is IDL?Along with its role (6 times)

Chapter 5

15. Cristian's Method(4 times)
16. Define Logical Clock(3 times)
17. Lamport's Clock Algorithm(5 times)
18. Type of Cuts(3 times)

Chapter 6

19. Define election algorithm along with its importance(3 times)
20. Bully Algorithm(5 times)
21. How to come to consensus in DS(3 times)

Chapter 7

22. Define Replication along with the reasons for it(5 times)
23. How can you claim replication is one of the scaling technique in DS(3 times)

- 24. Passive & Active Replication(7 times)
- 25. Discuss a technique to make DS highly available(4 times)

Chapter 8

- 26. Define Nested Transaction(3 times)
- 27. Different Method of Concurrency Control(4 times)
- 28. Optimistic Concurrency Control(3 times)
- 29. Atomic Commit Protocol(3 times)
- 30. Two Phase Commit Protocol(3 times)
- 31. Distributed Deadlock(4 times)

Chapter 9

- 32. Define K-fault tolerant system(3 times)
- 33. Process Resilience(6 times)
- 34. Coordinated Checkpoint(3 times)
- 35. Explain Byzantine general problem to handle faculty process with an example(3 times)

Chapter 10

- 36. Main component of COBRA RMI(4 times)
- 37. Dynamic & Static Invocation approaches of COBRA(3 times)
- 38. COBRA Services(6 times)
- 39. MACH(3 times)
- 40. JINI(4 times)