**IV/IV CSE DISTRIBUTED SYSTEMS IMPORTANT QUESTIONS**

1.Define DS ? what r the main Objectives (Char’s)of DS?

2.Difference between Tightly coupled &Loosely coupled systems?

3.Difference between Multi computers & Multiprocessors?

4.what r the 3 different DS Architecture types ? Explain?

5.Define Synchronous & Asynchronous DS?

6.Defi ne DNS?

7.What r the Middle ware services & limitations?

8.Define RPC & RMI?

9.Define Happened before relation ? Cut?

10.What is Local State & Global State?

11.Explain Berkeley Algotithm?

12.What is Byzantine Agreement Problem?

13.Define Phantom deadlocks & Live locks?

14.Define Deadlock? Types of Dead locks?

15.Define DSM? What r the Advantages? What r the Implementation Issues?

16.Discuss Directory Service Operations?

17.Discuss Fault Tolerant Issues?

18.What r the Requirements of Distributed file System?

19.Explain about Group Communication?

20.Describe the concept of Cache Coherence?

21.Define Sequential & Release consistency?

22.What r the Requirements of Mutual Exclusion?

23.Explain about Char’s of IPC?

24.Write short notes on Mutual exclusion, Failure Model, Events, Event notification, Snapshot Algorithm?

25.What r the Advantages of Clock Synchronization Algorithms?

26.Explain about FLAT& NESTED Transaction?

27.How does 3 phase commit protocol is different from 2 phase commit protocol?

28. What is Name Space? Discuss its Implementation?

29.Explain Lamport Logical Clocks?

30.Explain Distributed Transactions?

31.Difference between Internal & External Synchronization?

32. Explain about Design Issues of DS?

33. Describe the Architectural Models & Fundamental Models of DS?

34. Explain about Multi threading in DS?

35. Describe the roles of Process& threads?

36.Explain about Client Server Communication?

37.Explain about RPC with neat diagram?

38.Explain about Clock synchronization Algorithm?

39.Explain about Election Algorithms?

40. Explain about Mutual Exclusion Algorithms?

41.Explain about 2 phase commit protocol?

42. Explain about 2 phase locking?

43. Explain about Optimistic Concurrency Control?

44. Explain about deadlock detection Algorithms?

45. Explain about deadlock prevention mechanisms?

46. Explain about File System Architecture with case study(SUN NFS, CODA)

47.Define Granularity & Thrashing?

48.List UNIX operations?

49.Difference between centralized & distributed systems?