<u>Distributed System</u>

Chapter1

- 1. Explain different types of Distributed System.
- 2. What is distributed transparency ? Explain types of transparency.

Chapter2

- 1. Explain three tier architecture with diagram.
- 2. Explain Content Addressable Network (CAN).
- 3. Explain decentralized architecture with example.
- 4. What is hybrid architecture ?Explain with example. (Edge server system is an example)

Chapter3

- 1. Explain the role of virtualization in Distributed System.
- 2. Explain X window system.
- 3. Explain general organization of cluster server with diagram.
- 4. Explain code migration in distributed system with diagram.
- 5. List the architecture of multi threaded server.
- 6. Compare process and thread.
- 7. Discuss about thread in Distributed System.

Chapter4

- 1. Explain the RPC in detail.
- 2. RMI overtion.
- 3. Explain the design of message passing interface.

4. Discuss the following:

- a. UDP datagram communication.
- b. TCP Stream communication.
- 5. What is Marshalling?
- 6.Explain the RPC mechanism with various functional components.
- 7. Define multicast communication.
- 8.Describe Java RMI.
- 9.Explain about the group communication.
- 10. Explain about the client-server communication.

Chapter5

Distributed Naming.

- 1.What is name resolution ?Explain two ways to implement name resolution.(Iteractive and Recerssive)
- 2.Define name space.
- 3. What is LDAP?
- 4. Explain in detail about name services.
- 5. Discuss in detail about domain name services.

Chapter6

- 1. What christian's algorithm of physical clock synchronization.
- 2. Explain logical clock in detail.
- 3. Explain Recart-Agrawala algorithm of distributed mutual exclusion.
- 4. Explain Bully algorithm of leader election.
- 5. Explain ring based election algorithm .
- 6. Define External and internal synchronization .
- 7. Explain about the logical time and logical clocks

Chapter8

- 1. What is meant by arbitrary failure? (Byzantine failure.)
- 2. Explain the two phase commit protocol with an example.

Chapter9

- 1. What are the three components of security.
- 2. What is meant by cryptography ?What is use of cryptography?
- 3. Explain different types of cryptographic algorithm.