DC IMP TOPICS (1-3)

- Distributed systems and their goals
- Importance of distributed pervasive system
- Describe access and relocation transparency
- Distributed Information system
- Three common Challenges in distributed system design
- Compare centralized and distributed systems
- List down advantage of distributed system
- Describe distributed computing systems and types
- Explain model of distributed system
- Compare tightly and loosely coupled system
- Illustrate middleware and services
- Transparency in distributed system
- application of distributed systems
- Compare distributed OS, network OS, middleware os
- Goals of distributed systems
- hardware and software concepts of distributed systems
- types of distributed systems
- characteristics of distributed systems
- middleware models types
- Transient synchronisation and persistent synchronisation
- Draw & explain RPC reply message format and RPC call message format
- use of remote object reference
- Identify use of message queue
- Define group communication in distributed system
- Describe Inter process communication (IPC)
- Features of group message passing system
- Compare Synchronous communication and asynchronous communication
- Analyse characteristics of IPC
- Design issue of RPC call
- Call semantics of call RPC
- Call semantics of call RMI
- Group communication types
- stream oriented communication with eg
- RPC RMI working
- Difference between Message oriented stream oriented communications
- Socket programming preventives in details
- logical clock condition and implementation rules
- property of quorum in Maekawa algorithm
- Compare performance parameters of non token based algorithms
- Difference between clock drift and clock skew
- Advantages of token based algorithms
- Illustrate physical clock synchronisation for passive mode

- Illustrate physical clock synchronisation for active mode
- Ring election algorithm with eg
- Centralized approach of mutual exclusion algorithm
- vector clock in Distributed computing with eg
- What happened before relation in logical clock and what it does
- explain ricart agrawala algo
- singhal heuristic algo
- Raymond algo
- maekawa algo
- Suzuki kasami algo
- Need of coordinator in Distributed systems