

N.B.(1) Question No.1 is compulsory.

(2) Attempt any Four questions out of remaining six questions.

(3) Assume suitable data wherever required.

1. (a) What are the different goals of distributed system? Explain how these goals are implemented in distributed system. 10
- (b) Compare Multi computer systems with Multi processor systems . 10
2. (a) Compare NOS with DOS middleware. 10
- (b) Explain any algorithm designed to provide mutual exclusion in distributed environment. 10
3. (a) Explain the difference between Data Centric consistency and Client Centric consistency models .Explain one scheme of each. 10
- (b) What is transparency? Discuss transparency with respect to distributed system. 10
4. (a) What are the Totally Ordered multicasting? How Lamport Clock is implemented? 10
- (b) Explain the Code Migration and the role of mobile agents. 10
5. (a) Explain various forms of message oriented communication with suitable application of each. 10
- (b) Explain with example Threads and Processes, Discuss differences and similarities between thread and process . 10
6. (a) What is Name Resolution? Explain various ways of name resolution. 10
- (b) What is CORBA? Explain the working of CORBA as middleware. 10
7. Write details note on any four 20
- (a) CODA File system.
- (b) Mobile Agents.
- (c) Message Broker.
- (d) Crash and Recovery.
- (e) Peer to Peer model as compare to Client-Server model.