16/12/16

Q.P. Code: 622602

(3 Hours) Total Marks: 100 Q.No.1 is compulsory N.B.:(1)Solve any four questions from the remaining questions. (a) Explain desirable features of good message passing system. 1. (b) Explain RPC System Model for communication in distributed system in detail. (b) What are good features of a distributed file system? Explain file sharing semantics of it. (a) Explain issues in designing a distributed operating system. 2. 10 10 (a) Explain the distributed algorithms for clock synchronization. 3. 10 (b) Explain the different load estimation policies and process transfer policies 10 used by load balancing algorithms. (a) Explain distributed algorithm for mutual exclusion. What are the advantages 4. 10 and disadvantages of it over centralized algorithm. (b) Explain different issues for designing of Distributed Shared Memory (DSM). 10 (a) Compare stateful and stateless servers. 5. 10 (b) Explain Election algorithms with advantages and disadvantages. 10 (a) Write a note on system oriented names and human oriented names. 6. 10 (b) Explain failure handling related to client and server communication. 10 7. Write a note on: (any Two) a) File caching for distributed system 20 b) Lightweight RPC Process migration mechanisms ate of the state o Distributed Computing Environment (DCE)