

a) Active replication.

b) Elections.

Code No.: 5251

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FACULTY OF ENGINEERING B.E. 4/4 (CSE) I Semester (Main) Examination, Dec. 2011 DISTRIBUTED SYSTEMS

Time: 3 Hours1 [Max. Marks: 75 Note: Answer all questions from Part A. Answer any five questions from Part B. PART - A (25 Marks) 1. Define distributed system. Give any two examples. 2. What is the use of Reflection in Implementation of RMI? 3. What is distributed Garbage collection? 2 4. Differentiate between RPC and LRPC. 3 5. Explain the Berkeley Algorithm. 3 6. What is Global state? 7. What are dirty reads? 8. What is the distributed shared memory? 3 Define nested transaction. 10. What are the uses of Group Communication? 3 PART - B (50 Marks) 11. a) What is transparency? List out the different levels of transparency and explain. 5 b) Explain the architectural models of Distributed system. 5 12. a) What are the different ways of Invocations in Distributed system. Explain. b) What is meant by object serialization? Explain. 5 13. a) Write the design issues of RMI. b) Write short notes on DNS. 5 14. a) Explain about distributed debugging. b) Write the central server and ring based algorithms for distributed mutual exclusion. 5 15. a) What is the time stamp ordering? Explain. b) What is distributed Deadlock? Explain about Edge chasing. 16. Describe the architecture of SUN NET WORK file system. 10 17. Write short notes on: