Code No. : **5251**

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

Time: 3 Hours]   [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
2. What is the use of Reflection in Implementation of RMI ?   3
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 ?   2
7. What are dirty reads ?   2
8. What is the distributed shared memory ?   3
9. Define nested transaction.   2
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.   5
    b) What is meant by object serialization ? Explain.   5

13. a) Write the design issues of RMI.   5
    b) Write short notes on DNS.   5

14. a) Explain about distributed debugging.   5
    b) Write the central server and ring based algorithms for distributed mutual exclusion. 5

15. a) What is the time stamp ordering ? Explain.   5
    b) What is distributed Deadlock ? Explain about Edge chasing.   5

16. Describe the architecture of SUN NET WORK file system.   10

17. Write short notes on :
    a) Active replication.   5
    b) Elections.   5

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