Code No. : 3153

FACULTY OF ENGINEERING
B.E. 4/4 (CSE) I Semester (Main) Examination, Nov./Dec. 2010
DISTRIBUTED SYSTEMS

Time : 3 Hours] [Max. Marks : 75

*Note : 1) Answer **all** questions of Part A.*
*2) Answer **five** questions from Part **B**.*

PART – A (25 Marks)

1. What are the main objectives of Distributed Systems ? 3
2. Differentiate between tightly coupled and loosely coupled systems. 3
3. What is the need for IDL ? 2
4. Define RPC. 2
5. What is a Global state ? 2
6. Write notes on Election's. 3
7. What are phantom Deadlocks ? 2
8. Discuss Fault-Tolerance Issues. 3
9. Write notes on Distributed file systems. 3
10. Explain about Release consistency. 2

PART – B (50 Marks)

11. a) Describe the Architectural models of Distributed systems.
    b) Write notes on Processes and Threads.
12. Discuss in detail about Remote Procedure Calls (RPC).
13. a) Explain Election Algorithm using Ring.
    b) Write short notes on "Mutual Exclusion".

14. Discuss the Deadlock prevention mechanisms in Distributed systems.
15. Explain in detail about SUN NFS.
16. a) Distinguish between Centralized systems and Distributed systems.
    b) Describe CODA.
17. Discuss the following concepts related to Distributed systems.
    a) The Directory Server Interface
    b) Sematics of File Sorting
    c) Distributed Shared Memory.
