

F 906 G 1529

Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, JUNE/JULY 2006**

**Eighth Semester**

Branches—Computer Science and Engineering, Information Technology

**DISTRIBUTED COMPUTING (Elective—II) (RT)**

(New Scheme—2002 Admissions—Regular)

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

**Part A**

1. What are the advantages of Distributed systems over centralized systems ?
2. What is meant by Naming transparency ?
3. What are the differences between a multi-processor and a multi-computer ?
4. What is cache consistency ?
5. How is automicity maintained in group communication ?
6. What is RPC ?
7. How are faults classified ?
8. Explain Byzantine failure.
9. What is the need for a thread ? How are they organised ?
10. What is TMR ?

(10 × 4 = 40 marks)

**Part B**

*Answer any five questions.*

11. Briefly explain process management, memory management and communication in AMOBEA.
12. What are the key design issues to be dealt with in building a distributed computer system ?
13. Explain the two distinct components of Distributed file system design.
14. Briefly describe sun's Network file system.
15. What are basic RPC operations ?
16. Explain the different types of group communication.
17. Compare and contrast Dynamic and static scheduling.
18. Explain load balancing and load sharing.
19. How can we detect and prevent dead locks ?
20. How is mutual exclusion implemented in a Distributed computer system ?

(5 × 12 = 60 marks)