G 1216 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2012

Eighth Semester

Branch : Computer Science and Engineering/Information Technology

DISTRIBUTED COMPUTING (Elective II) (R T)

(Regular/Supplementary)

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*

Each question carries 4 *marks.*

1. Explain characteristics of distributed system.
2. Discuss the design issues of distributed system.
3. Explain File system modules.
4. Explain the security of Network file system.
5. Explain the actions in marshalling.
6. Discuss a stateless file server with example.
7. Bring out the basic idea of task assignment approach.
8. List and explain the location policies.
9. State and explain Fault tolerance.
10. Explain centralized approaches and distributed approaches in detail.

(10 × 4 = 40 marks)

Part B

Each question carries 12 *marks.*

11. Briefly explain the evolution and characteristics of distributed systems.

Or

12. Discuss the design goals and main features of AMOEBA.
13. Describe File service architecture.

Or

14. Discuss the implementation of NFS file system.

Turn over

15. With figure explain RPC model.

Or

16. With an example, explain the implementation of logical clocks.

17. Describe the process migration and its desirable features.

Or

18. Briefly explain the issues in designing load-balancing algorithms.

19. Discuss the transaction recovery methods in detail.

Or

20. Briefly explain how deadlock can be prevented in the distributed system.

(5 × 12 = 60 marks)