G 7068 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, APRIL 2011

Eighth Semester

Branch : Computer Science and Engineering/Information Technology

2. DISTRIBUTED COMPUTING—(Elective II) (RT)

(Regular/Supplementary)

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 4 *marks.*

1. Write a note on the evolution of distributed systems.
2. Write short note on IP protocol.
3. Explain the distributed file system requirements.
4. With figure explain the NFS architecture.
5. Differentiate closed groups and open groups.
6. Define the term trashing.
7. Explain the process migration. When it is needed ?
8. Explain load balancing and load sharing.
9. What do you mean by the term intention lists ?
10. What is a deadlock in distributed systems ?

(10 × 4 = 40 marks)

Part B

Answer any **five** *questions.*
Each question carries 12 *marks.*

11. List the advantages and disadvantages of distributed system. (12 marks)

Or

12. Give description about the following : —
    (i) Process management in MACH. (4 marks)
    (ii) Memory management in MACH. (4 marks)
    (iii) Communication in MACH. (4 marks)
13. Explain the different ways of dealing with the shared files in distributed systems. (12 marks)

Or

Turn over

14. Explain the names and attributes used in CDDA. (12 marks)

15. Discuss the different classes of failures that can occur in RPC systems. (12 marks)

Or

16. Define mutual exclusion. What are various algorithms used in distributed systems ? (12 marks)

17. With figure explain the receiver initiated algorithm. (12 marks)

Or

18. Discuss various approaches of task management. (12 marks)

19. Discuss the transaction recovery methods. (12 marks)

Or

20. With figure explain :

    (i) Initialized deadlock detection. (6 marks)

    (ii) Distributed deadlock detection. (6 marks)

[5 × 12 = 60 marks]