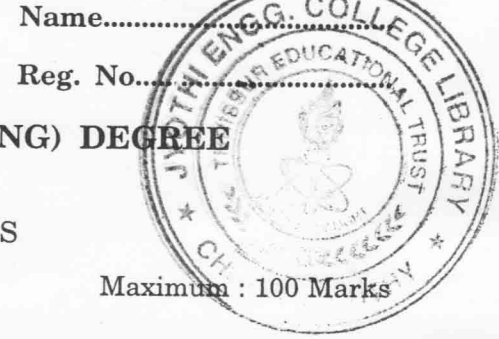


C 29017



**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2012**

CS/IT 04 703—DISTRIBUTED SYSTEMS

Time : Three Hours

Part A

- I. (a) Explain the various types of transparency in a distributed system.
- (b) Give the definition of distributed operation system given by Tanenbaum and Ean Kenesse and explain.
- (c) Explain threads and processes in distributed system.
- (d) What are the different types of packets used in client server model ? Describe their usages.
- (e) Describe briefly mutual exclusive in distributed systems.
- (f) Explain the Bully election algorithm.
- (g) Explain briefly distributed shared memory in distributed systems.
- (h) What are the services provided by distributed file system?

(8 × 5 = 40 marks)

Part B

- II. (a) Explain in detail distributed systems concept and architecture.
Or
(b) Explain major design issues of distributed systems.
- III. (a) Discuss about the various mechanisms provided for process synchronisation in concurrent programming languages.
Or
(b) Explain in detail client server model in distributed systems.
- IV. (a) Explain in detail about interprocess communication and co-ordination in distributed systems.
Or
(b) Explain in detail name and directory services in distributed systems.
- V. (a) Explain static process scheduling, dynamic load sharing and balancing in distributed systems.
Or
(b) Describe in detail about distributer computer security.

(4 × 15 = 60 marks)