

ME (Computer Sc. & Engg.) II-Semester Exam. June-2007
Distributed & Parallel Computing
Subject Code: E8905

Time: 3 Hrs.

Max. Marks: 80

Min. Pass Marks: 28

*Attempt any FIVE questions.
Each question carries equal marks..*

Q.1 Explain page based distributed shared memory system in distributed operating systems. Compare distributed operating systems with network operating systems.

Q.2 Explain the concept the Remote Procedure call. Write a detail note on the operation of Remote Procedure call in a client-server system.

Q.3 How names are organized in a distributed system? Explain the implementation of name space and name resolution in a distributed system.

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Q.4 Explain the basic concepts of fault tolerance in distributed systems. What is triple Modular Redundancy? Explain how redundancy is used for fault masking.

Q.5 Define various types of security threats in distributed systems. How cryptographic techniques are used to implement security in distributed systems. Explain DES cryptographic algorithm.

Q.6 Give an overview of CODA distributed operating system. Explain the implementation of security in CODA file system.

Q.7 What is URL? Explain architectural details of a client and server in the web.

Q.8 Write short notes on any four.

- (i) Threads
- (ii) Naming versus locating entities
- (iii) Clock synchronization Algorithm
- (iv) Replica Placement distribution Protocol
- (v) Overview of NFS
- (vi) Concept of Caching and replication