

[07 - 4220]

IV/IV B.Tech. DEGREE EXAMINATION.

Second Semester

Computer Science and Engineering

DISTRIBUTED OPERATING SYSTEMS

(Effective from the Admitted Batch of 2006-2007)

Time : Three hours

Maximum : 70 marks

Answer to question No.1 is compulsory

Answer any FOUR from the remaining.

All questions carry equal marks.

Answer ALL parts of any question at one place.

1. (a) What is an open distributed system?
- (b) What is meant by a scalable system?
- (c) What is DCE?
- (d) What is reference broadcast synchronization?
- (e) What is network file system?
- (f) What is the difference between stateless and stateful server?
- (g) What is the use of synchronized clocks?

2. What is a distributed system? Discuss about various design issues of a distributed system.
3. Explain in detail about different types of layered protocols in distributed systems.
4. Discuss the implementation aspects of atomic transaction model.
5. Briefly explain the following :
  - (a) The client-server model
  - (b) Clock synchronization.
6. Explain the following :
  - (a) Processors allocation
  - (b) Fault tolerance.
7. Discuss the design issues for file caching and replication.
8. What is shared memory? Explain about page based distributed shared memory.