

BE (Comp) VIII (REV.) 29/5/2012

D.C.

Comp Sem VIII

D.C.

(40) +
(37)

Con. 4452-12.

(REVISED COURSE)

GN-8270

(3 Hours)

[Total Marks : 100

- N.B.**
- (1) Question No. 1 is **compulsory**.
 - (2) Attempt any **four** questions, out of **remaining** questions.
 - (3) **All** questions carry **equal** marks.
 - (4) Draw **neat** diagram wherever **required**.

1. (a) Explain Distributed computing systems models with diagram. 10
(b) Explain desirable features of a good distributed file system. 10
 2. (a) Compare and contrast Mutual Exclusion Algorithms. 10
(b) Explain Failure handling in message passing. 10
 3. (a) Discuss the Issues in designing Load-balancing algorithm. 10
(b) Explain communication protocols for RPC. 10
 4. (a) Explain Stateful file servers and Stateless file servers and its advantages. 10
(b) Write a note on Group communication. 10
 5. (a) Write a note on System oriented names and Human oriented names. 10
(b) Explain the different distributed physical clock synchronization algorithms with their relative advantages and disadvantages. 10
 6. (a) Explain various consistency models in DSM. 10
(b) Explain RPC implementation mechanism. 10
 7. Write short notes on : (any **four**) 20
 - (a) Thrashing
 - (b) Token ring algorithm
 - (c) DCOM
 - (d) File – Caching schemes
 - (e) Process migration
 - (f) Naming and security
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