

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**.

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|----|---|----|
| 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 | |