BE-[COMPS] -sem VIII - DC (ELECTIVE)
(REV.)

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QP Code : 8309

(3 Hours) **[Total Marks : 100**

Note (1) Q.No.1 is compulsory
(2) Solve any 4 questions from the remaining questions.

Q1. a) Explain Distributed system models with diagram. 10
b) Explain RPC system model in detail. 10

Q2. a) What are the good features of a Distributed File System? Explain file sharing
semantics of it. 10
b) Explain various forms of message oriented communication with suitable example. 10

Q3. a) Explain Distributed algorithm for mutual exclusion. What are the advantages
and disadvantages of it over centalized algorithms. 10
b) Compare stateful and stateless servers. 10

Q4. a) Explain the distributed algorithms for clock synchronization. 10
b) What are the common strategies used for handling deadlocks in distributed
systems. 10

Q5. a) Define Thrashing. What are the methods used for solving thrashing problems. 10
b) Explain the different load estimation policies and process transfer policies used
by load balancing algorithms. 10

Q6. a) Write a note on system oriented names and human oriented names. 10
b) Discuss file caching for distributed system. 10

Q7) Write short note on (any two) 20
a) Light-weight RPC
b) Distributed Transaction Management
c) Distributed computing environment (DCE)
d) Election algorithms

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