B.E. (COMPJ, SEM VIII (OLD/REV), 30/05/17

Q. P. Code : 09944

(3 hrs) Marks: 100

N.B. (1) Question one is Compulsory.
(2) Attempt any 4 questions out of the rest
(2) Figure to the right indicate full marks.
(3) All question carry equal marks.

Q1. (a) What are various system models of distributed system? (5)
(b) Compare NOS and DOS (5)
(c) What are transparencies of Distributed system (5)
(d) Explain Bully algorithm is coordinator selection (5)

Q2. (a) Explain the need for process migration, what is the role of resource to process and process to resource binding in process migration (10)
(b) Explain message oriented model of communication in distributed System. (10)

Q3. (a) Explain distributed algorithm for mutual exclusion (10)

(b) Explain the model of RPC. Explain various types of RPCs (10)

Q4 (a) How is group communication handled? (10)
(b) Explain any one algorithm for distributed deadlock detection. (10)

Q5
(a) Explain the difference between Data Centric and Client Centric consistency models. (10)
(b) How does Lamport's clock implement happens before relationship amongst events. (10)

Q6 (a) Explain load balancing scheme of process management (10)
(b) Explain in detail the issues of distributed file system. (10)

Q7. Write short notes on : (any 2) (20)

1. Cache Consistency
2. Light weight and callback RPC
3. Stateless vs stateful servers
4. Physical clock synchronization