Roll No....

8803

Printed Pages: 3

BT-8/M12

DISTRIBUTED OPERATING SYSTEMS

Paper-CSE-440

(DE IV)

Time allowed: 3 hours]

[Maximum marks: 75

Note: Attempt five questions picking at least one question from each unit.

Unit-I

- 1. (a) Explain in brief Amoeba architecture of distributed operating system.
- (b) What are the difficulties in achieving computation migration?
- 2. (a) What are naming issues in distributed system?
 - (b) Discuss Multi RPC and PARPC. What are general shortcomings of RPC facilities?

Unit-II

3. (a) Describe the data structures required in Heuristic algorithm for distributed mutual exclusion.

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- (b) What are the request sets required to be constructed for Maekawa's algorithm? 9,6
- 4. (a) Show that Lamport's algorithm of mutual exclusion requires 3 (N-1) messages per CS invocation.
 - (b) Discuss minimum response time and maximum average response time of different mutual exclusion algorithms.

 9,6

Unit-III

- 5. (a) Explain the conditions needed for a correct deadlock detection algorithm.
- (b) Discuss features of Obermarck's deadlock detection algorithm. 8,7
- 6. (a) Discuss issues in deadlock resolution.
 - (b) Describe the two-phase algorithm for deadlock detection. 8,7

ne boringor equations Unit-IV

7. (a) Draw a flowchart showing typical data access actions n distributed file systems.

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- (b) What are sender initiated and receiver initiated load sharing schemes? 8,7
- 8. (a) Explain issues related to cache consistency.
 - (b) Describe overheads in a load sharing policy.

8,7