Code No: NR-49

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA IV Semester Supplementary Examinations January 2010
DISTRIBUTED OPERATING SYSTEMS

Time: 3 hours   **Max.Marks:60**

Answer any FIVE questions
All questions carry equal marks

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1.   Explain the design issues in distributed operating systems?

2.   Write about group communication?

3.   What is a deadlock? And explain the following:
        i) Distributed deadlock detection
        ii) Distributed deadlock prevention.

4.   What is scheduling? And write about scheduling in distributed systems?

5.a)   What are the contents of a file attribute record structure?
  b)   Define the following:
        i) Transparency   ii) File replication
        iii) Consistency   iv) Fault tolerance.

6.   Differentiate page based DSM shared variable DSM and object bases DSM?

7.   Write short notes on the following:
        a) Process management in MACH
        b) Unix emulation in MACH.

8.   What is DFS? Explain RPC's time services, Directory service and security service
        in DCE?

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