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101704

Dec., 2018
B.TECH 7th SEMESTER CE/IT (UNDER CBS)
DISTRIBUTED OPERATING SYSTEM
(CE-407)

Time : 3 Hours]   [Max. Marks : 60

Instructions:

(i)   *It is compulsory to answer all the questions of Part-1. Limit your answers within 20-40 word in this part.*

(ii)   *Answer any four questions from Part-2 in detail.*

(iii)   *Different parts of the same question are to be attempted adjacent to each other.*

(iv)   *Assume suitabel standard data wherever required, if not given.*

PART–1

1.   (a)   Give main 2 technical differernces between Network OS and Distributed OS.   (2)

     (b)   List basic transparency needed to be supported distributed system.   (2)

     (c)   Explain the significance of Vector-Clock condition.   (2)

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(d) What are casually related even_?? (2)

(e) What are Stateless and stateful servers? (2)

(f) What are different Real time distributed systems? (2)

(g) Explain parameter Marshalling. (2)

(h) What is Write-thrrough protocol? (2)

(i) Define false deadlock. (2)

(j) Explain the function of Bootstrap port. (2)

PART-2

2. (a) What are the design issues involved in Distributed Systems? (5)

(b) Describe RPC Semantics in case of failures. (5)

3. (a) What are different methods of Deadlock Prevention in Distributed System? (5)

(b) Compare various Mutual Exclusion algorithms. (5)

4. (a) Explain Ring based multiprocessors. (5)

(b) Explain various ways of replication in DFS. (5)

5. (a) Describe how the threads can be organized in different forms. (5)

(b) Explain the need of Clock synchronization in detail. (5)

6. What are the Consistency models in distributed shared memory? Explain page based distributed shared memory. (10)

7. Explain process management in MACH in detail. (10)