

3Hrs

80 Marks



- Note: 1) Question no 1 is compulsory
2) Solve any three from remaining

- Q1 a) Explain Flynn's classification scheme (05)
b) Explain Data mapping and memory in array processor (05)
c) Explain desirable features of global scheduling algorithm (05)
d) Explain Berkeley physical clock algorithm (05)
- Q2 a) Explain different types of Hazards in Parallel System (10)
b) Explain Ricart-Agrawala algorithm for Mutual Exclusion (10)
- Q3 a) Give an example that can be solved effectively with SIMD architecture (10)
b) What are the different Architectural Model of Distributed System?
Explain with suitable diagram (10)
- Q4 a) Explain Hadoop Distributed File System (HDFS). (10)
b) Explain Software models supported by the distributed system (10)
- Q5 a) What is Remote Procedure Call? Explain the working of RPC in detail. (10)
b) What are different data centric consistency model? (10)
- Q6 a) Explain different load estimation policies and process transfer policies used by
Load balancing algorithm (10)
b) Explain Bully Election Algorithm (10)

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