



Duration: 3Hrs

[Max Marks: 80]

- N.B.:** (1) Attempt any four questions
(2) All questions carry equal marks
(3) Assume suitable data, if required and state it clearly

- Q1** A Explain any five data centric consistency models with example data stores. [10]
B Explain different load estimation policies and process transfer policies used in load balancing approach of distributed system. [10]
- Q2** A What is Remote Procedure Call? Describe the working of RPC in detail. [10]
B Explain Bully election algorithm. [10]
- Q3** A Discuss design and implementation issues of distributed shared memory. [10]
B What are desirable features of a good DFS? [10]
- Q4** A Discuss various issues and goals related to design of distributed system. [10]
B What is distributed mutual exclusion? Explain how Suzuki-Kasami's broadcast algorithm achieves distributed mutual exclusion. [10]
- Q5** A What is need of code migration? Explain the role of process to resource and resource to machine binding in code migration. [10]
B Explain various file caching schemes. [10]
- Q6** A What is physical clock? Explain any one physical clock synchronization method. [10]
B What is fault tolerance? Describe different types of failure models. [10]

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