



Previous Year Question list for ADC:

[Note: Don't rely on important question]

(Question marked [*] is repeated Question from previous paper)

1. Election Algorithm? Explain in detail [*]
2. Cloud computing? & its architecture [*]
3. Discuss various thread models? Explain advantages of creating a new process creating multiple threads with in a process [*]
4. Explain group communication. Discuss Implementation of casual ordering semantics in CBCAST protocol of isis system
5. Explain concept of preemptive process migration. Explain diff address space transfer mechanism used in process migration & features of process migration mechanism [*]
6. Compare RPC & RMI. Impln with help of diagram of RPC mechanism.
7. Explain strong consistency models. How they differ from weak consistency models. [*]
8. Issue in data security in cloud computing. How that can be protected in cloud. [*]
9. Process migration? Its features? & mechanism with diagram [*]
10. Grid computing in detail? & how its differ from cloud computing [*]
11. What is stub? Explain how stub helps in RPC mechanism
12. What is critical section? How will you Implement mutual Exclusion Algo [*]
13. Explain Diff Consistency models of distributed shared memory [*]
14. Implementation of DSM system
15. RPC Mechanism [*]
16. Discuss about IPC in MACH
17. Distinguish betwn:
 - Blocking & non-Blocking Preemptive of IPC
 - Connection Oriented & Connectionless Programming
 - Grid vs Cloud Computing [*]
 - Workstation vs Workstation Server model
18. Short Note:
 - Multidatagram Message
 - Clientserver Archi
 - Mutual Exclusion [*]
 - SOA & its Benefits [*]
 - Grid Computing





- Call Back RPC

Below are Unit Wise[Question Bank]:

Unit 1:

1. Distributed Computing System Models
2. Issues in Distributed Systems
3. Client Server Model
4. IPC
5. Issues in IPC by Message Passing
6. Buffering techniques
7. Idempotency & Duplicate Request
8. Absolute, Consistent & Causal Ordering
9. Stateful & Stateless Server
10. RPC, RMI

Unit 2:

1. Physical & Logical Clocks
2. Process Migration
3. Threads
4. Election Algorithms
5. Happened Before Relation
6. Mutual Exclusion Approaches

Unit 3:

1. Consistency Models.
2. Implementation of sequential model
3. Replacement strategy

Unit 4:

1. Resources Management:
 - a. Task Assignment Approach
 - b. Load balancing/Load Sharing Approach
2. Features of Good Scheduling algo.
3. Process Migration Mechanism.
4. Features of good process migration
5. Thread & Process
6. Thread Models.

Unit 5:





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1. Service Oriented Architecture.
2. Key Principles / Characteristics of SOA
3. Key Standards & Technology of SOA.
4. Goals & challenges of SOA.

Unit 6:

1. Parallel Computing applications and scope.
2. Forms of Parallel Computing – Data parallelism.
3. Task Parallelism.

Unit 7:

1. What is cloud computing?
2. Characteristics of cloud computing.
3. Cloud Computing & Grid Computing.
4. Cloud Computing models – Deployment models & Service models.



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