N.B.: 1) Question No.1 is **compulsory.**
   2) Attempt any **three** from the remaining **five** questions.

1.   Write Short Notes on **any four** :-   (20)
   - a) Amazon web services
   - b) Mutual Exclusion
   - c) RMI
   - d) Aneka
   - e) Thread Model

2. (a) How file management is performed in a distributed environment? Explain   (10)
        with an example.
   (b) Describe load sharing approach in Distributed Systems.   (10)

3. (a)   Discuss various Election algorithms in detail.   (10)
   (b) Name the various clock synchronization algorithms. Describe any one   (10)
        algorithm.

4. (a) What is QoS (Quality of Service) and Resource Allocation in cloud.   (10)
   (b) What is ordered message delivery? Compare the various ordering semantics   (10)
        for message passing.

5. (a) Explain the mechanism for process migration and desirable features of   (10)
        process migration mechanism.
   (b) What is RPC? Explain in detail RPC execution.   (10)

6. (a) Explain the various hardware architectures used to implement DSM System.   (10)
   (b) Discuss various types of cloud.   (10)

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