**UNIT IV**

**Chapter 10: Time and Global States**

1. Define following terms

* Physical clock
* Clock skew and clock drift
* Coordinated Universal Time

2. Explain different modes of synchronizing a physical clocks.

3. Explain internal synchronization between two processes in synchronous distributed system.

4. Explain Cristian’s method for synchronizing clocks.

5. Explain Berkeley algorithm for internal synchronization.

6. Discuss the features of the NTP.

7. With the neat diagram. Explain the concept of synchronization subnet in an NTP implementation.

8. Discuss different modes of NTP server synchronization.

9. Explain with the neat diagram how messages are exchanged between a pair of NTP peers.

**Chapter-11 Co-ordination & Agreement**

1. Explain with a neat diagram Central Server Algorithm.
2. With neat diagram explain Ring based Algorithm w.r.t. mutual exclusion
3. With neat diagram explain Ring based Election Algorithm.

**UNIT-V**

**Cloud Computing**

1. Define cloud computing and attributes for delivering computing services.
2. Discuss network centric computing and network centric content.
3. Explain peer-to-peer systems.
4. Explain different types of clouds with examples.
5. Discuss the success and failure of cloud computing.
6. With the neat diagram explain cloud computing delivery models and services.
7. Discuss ethical issues encountered in cloud computing.
8. Explain cloud vulnerabilities.
9. Discuss the challenges faced by cloud computing.