**UNIT-4**

1 MARK

1. What is time?
2. What are clocks?
3. Write about clock skew?
4. What is clock drift?
5. What is internal synchronization?
6. What is external synchronization?
7. Explain synchronization?
8. What is master and slave?
9. What is a logical clock?
10. What is dead lock?
11. What is multicast mode?
12. What are vector clocks?
13. What is distributed mutual exclusion?
14. Discuss the algorithms for mutual exclusion?
15. What is deadlock and starvation?
16. What is debugging?
17. What are global states?
18. What is synchronization and types of synchronization?

5 MARKS

1. Write about Berkeley algorithm?
2. Discuss about NTP (Network Time Protocol)?
3. What are the drawbacks of Maekawa’s algorithm?
4. Write about bully algorithm?
5. What are the goals of consensus?
6. Write about symmetric mode?
7. Explain Cristian’s method for synchronization clocks (or) clock synchronization?
8. Explain UTC.
9. How to calculate the accuracy of NTP.
10. Discuss about Vector Clocks.
11. Discuss about Ricart and Agrawala’s Algorithm.

10 MARKS

1. Explain about the modes of NTP servers.
2. Explain about the snapshot algorithm.
3. Discuss in detail about distributed de-bugging.
4. Explain central server algorithm?
5. Explain about ring based algorithm?
6. Explain about Maekawa’s algorithm in detail?
7. Explain about Lamport’s logical clock.
8. Explain about global states.
9. Explain about Distributed Mutual Exclusion.