

## **Unit 6 - Deadlock Handling and Data Recovery**

1. What is Deadlock? How to deal with Deadlock?
2. Give different Deadlock Prevention Strategies.
3. Explain Deadlock Detection and Recovery mechanisms.
4. Explain the following mechanisms
  - a. Wait-Die
  - b. Wound-wait
5. What is starvation? Give different techniques to avoid starvation.
6. What are the different types of failure?
7. Explain the following terms
  - a. Volatile Storage
  - b. Non-volatile Storage
  - c. Stable Storage
8. Explain how stable storage can be implemented?
9. Explain Log-based Recovery Mechanism.
10. Explain Deferred database modification.
11. Explain Immediate database modification.
12. Explain Shadow Paging for Data Recovery. Give advantages and disadvantages of shadow paging.
13. Compare Deferred database modification with Immediate database modification
14. Explain use of checkpoint for data recovery.