



( 2 )

**Unit-II**

2. (a) Discuss client server architecture with suitable example.
- (b) Explain preemptive and non-preemptive scheduling with example.
- (c) Write short notes on the following :
  - (i) JVM and 8086 mode
  - (ii) Inter process communication

**Unit-III**

3. (a) What is virtual memory? Explain implementation of virtual memory.
- (b) Discuss the implementation of file mapping.
- (c) Write short notes on the following :
  - (i) TLB
  - (ii) Swap space

**Unit-IV**

4. (a) What is Deadlock? Write the characterization of deadlock.
- (b) Describe deadlock avoidance and deadlock recovery.
- (c) What is safe state? Explain Banker's algorithm using an example.

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**Unit-V**

5. (a) Explain virtual file system.
- (b) Describe network file system with example.
- (c) Write short notes on the following :
- (i) RPC
  - (ii) V-node architecture
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