

# TOP 15 IMPORTANT QUESTIONS (Unit-4)

## COA CS -404

### Super Important

1. Explain Cache Memory with diagram.
2. Explain Cache Structure and Design.
3. Explain Direct Mapping.
4. Explain Associative Mapping.
5. Explain Set Associative Mapping.
6. Compare all cache mapping techniques.
7. Explain LRU Replacement Algorithm.
8. Explain Cache Replacement Policies.
9. Explain Virtual Memory with diagram.
10. Explain Paging in Virtual Memory.

### Important

11. Explain Memory Management Hardware.
  12. Explain MMU.
  13. Differentiate RAM and ROM.
  14. Explain Magnetic Disk Organization.
  15. Explain techniques to improve Cache Performance.
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## One-Night Before Exam Questions

If you have only a few hours left, focus on:

- ✓ Cache Memory
- ✓ Cache Mapping Techniques
- ✓ LRU Replacement Algorithm

- ✓ Virtual Memory
- ✓ Memory Management Hardware (MMU)
- ✓ RAM vs ROM

These topics dominate Unit-4 across the 2022–2025 PYQs you uploaded. **Cache Memory + Mapping + Virtual Memory alone can cover more than half of Unit-4's expected marks in the 2026 paper.**