

# TOP 15 IMPORTANT QUESTIONS (Unit-5)

## COA CS- 404

### Super Important

1. Explain Pipelining with diagram.
2. Explain Pipeline Hazards.
3. Explain Pipeline Speedup.
4. Differentiate RISC and CISC.
5. Explain characteristics of RISC.
6. Explain characteristics of CISC.
7. Explain Inter-Processor Communication.
8. Explain Synchronization in Multiprocessor Systems.
9. Explain Multiprocessor Structure.
10. Explain Memory Organization in Multiprocessor Systems.

### Important

11. Explain Inter-Processor Arbitration.
  12. Explain Vector Processing.
  13. Explain Array Processing.
  14. Compare Vector and Array Processing.
  15. Explain Intel and AMD Multicore Processors.
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## One-Night Before Exam Questions

If your COA exam is tomorrow, prepare these first:

- ✓ Pipelining
- ✓ Pipeline Hazards
- ✓ RISC vs CISC

- ✓ Inter-Processor Communication
- ✓ Synchronization
- ✓ Multiprocessor Structure
- ✓ Memory Organization in Multiprocessors

These topics appeared most frequently in the PYQs you uploaded and have the highest probability of appearing again in the 2026 RGPV COA paper.

## Most Important Questions of Entire COA (All Units)

1. Booth's Algorithm (Unit-2)
2. DMA Controller (Unit-3)
3. Cache Memory (Unit-4)
4. Cache Mapping Techniques (Unit-4)
5. Virtual Memory (Unit-4)
6. Pipelining (Unit-5)
7. RISC vs CISC (Unit-5)
8. Addressing Modes (Unit-1)
9. Fetch & Execute Cycle (Unit-1)
10. Hardwired vs Microprogrammed Control Unit (Unit-1)

If you prepare only these **10 questions thoroughly**, you can cover a large portion of the repeatedly asked COA questions from the 2022–2025 papers you uploaded.