

TOP 15 IMPORTANT QUESTIONS (Unit-2)

COA-CS404

Very High Priority

1. Explain Booth's Algorithm with example.
2. Multiply two signed binary numbers using Booth's Algorithm.
3. Explain 2's Complement Representation.
4. Explain Signed Addition and Subtraction.
5. Explain Floating Point Representation.
6. Explain Floating Point Arithmetic Operations.
7. Explain IEEE-754 Floating Point Standard.
8. Explain Restoring Division Algorithm.
9. Explain Non-Restoring Division Algorithm.
10. Compare Restoring and Non-Restoring Division.

High Priority

11. Explain Binary Multiplication Algorithm.
 12. Design Arithmetic Unit with diagram.
 13. Explain Arithmetic Microoperations.
 14. Explain Parallel Adder based Arithmetic Unit.
 15. Explain Hardware Implementation of Arithmetic Operations.
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One-Night Before Exam Questions

If you have only 2–3 hours:

- Booth's Algorithm
- Floating Point Arithmetic
- Arithmetic Unit Design

- ✓ 2's Complement
- ✓ Restoring Division Algorithm
- ✓ Signed Addition & Subtraction

These 6 topics alone cover the majority of Unit-2 questions seen in your uploaded 2022–2025 papers and are the strongest candidates for the 2026 paper.