CoCubes Last-Minute Cheat Sheet

1. Aptitude Quick Formulas

- Time & Work: (A * B) / (A + B) = Total work done together

- Profit & Loss: Profit = SP - CP; Profit% = (Profit / CP) * 100

- Simple Interest: SI = (P x R x T) / 100

- Average: (Sum of observations) / (Number of observations)

- Speed = Distance / Time; Convert km/hr to m/s by multiplying with 5/18

2. CS Domain - Key Concepts

- OOPs: Abstraction, Encapsulation, Inheritance, Polymorphism

- DBMS: Keys (Primary, Foreign), Normalization (1NF to 3NF), Joins (INNER, LEFT)

- OS: Process vs Thread, Deadlock Conditions (Mutual Exclusion, Hold & Wait, etc.)

- C++: Class, Object, Constructor, Inheritance Syntax

- Data Structures: Stack (LIFO), Queue (FIFO), Binary Tree Traversal (Inorder, Preorder)

3. English Grammar - Common Rules

- Article: 'a' before consonant sound, 'an' before vowel sound, 'the' for specific things

- Tense Consistency: Stick to one tense per sentence

- Prepositions: Use 'in' for months/years, 'on' for days, 'at' for time

- Sentence Correction: Eliminate double negatives, check subject-verb agreement

- Synonyms/Antonyms: Learn basic pairs (e.g., Happy - Sad, Increase - Decrease)

4. WET Essay Template

- Intro: Briefly introduce the topic and your stand.

- Body: Give 1-2 arguments with examples (e.g., discipline, equality for school uniforms).

- Conclusion: Restate your opinion with a summarizing line.

- Tips: Avoid slang, check spelling, keep it structured (3 paragraphs).