



SYLLABUS X AND Y GROUP



ENGLISH

I. A short passage followed by four questions to test comprehension.

- 1.To judge understanding of the passage.
- 2.To draw inference
- 3.To judge understanding of vocabulary

II. Grammar – 1

- 1.Subject –verb concord
- 2.Forms of verbs and errors in the use of verbs, etc.
- 3.Sequence of tenses and errors in the use of tenses
- 4.Transformation of sentences—Compound, Complex, Simple, Negative, Affirmative, Comparative degree, Positive degree, Superlative degree etc.

ENGLISH

III. Grammar –2

1. Formation of words-Nouns from verbs and adjectives, Adjectives from nouns and verbs, Adverbs from adjectives etc
2. Determiners
3. The Preposition
4. Nouns and Pronouns
5. The Adjective
6. The Adverb
7. The Conjunction
8. The Modals
9. Clauses-Noun clauses, Adverb clauses of condition and time and Relative clauses

ENGLISH

IV. VOCABULARY

1. SYNONYMS AND ANTONYMS IN CONTEXT
2. ANTONYMS AND ANTONYMS IN CONTEXT
3. ONE WORD SUBSTITUTION
4. SPELLING PITFALLS
5. SIMPLE IDIOMS/PHRASES
6. WORDS OFTEN CONFUSED/SELECTING THE CORRECT WORD FITTING IN A SENTENCE

V. Narration (Direct and Indirect)

VI. Voice (Active and Passive)

VII. Jumbled Sentences

MATHS FOR GROUP 'X' (TECH TRADES)

1. Sets, Relations and functions
2. Trigonometric Functions
3. Inverse Trigonometric Functions
4. Complex Number and Quadratic Equations
5. Linear Inequalities
6. Mathematical Induction
7. Permutations and Combinations
8. Binomial Theorem
9. Sequences and Series
10. Cartesian system of rectangular co-ordinates
11. Straight lines and family of lines
12. Circles and family of circles
13. Conic sections
14. Three-dimensional Geometry

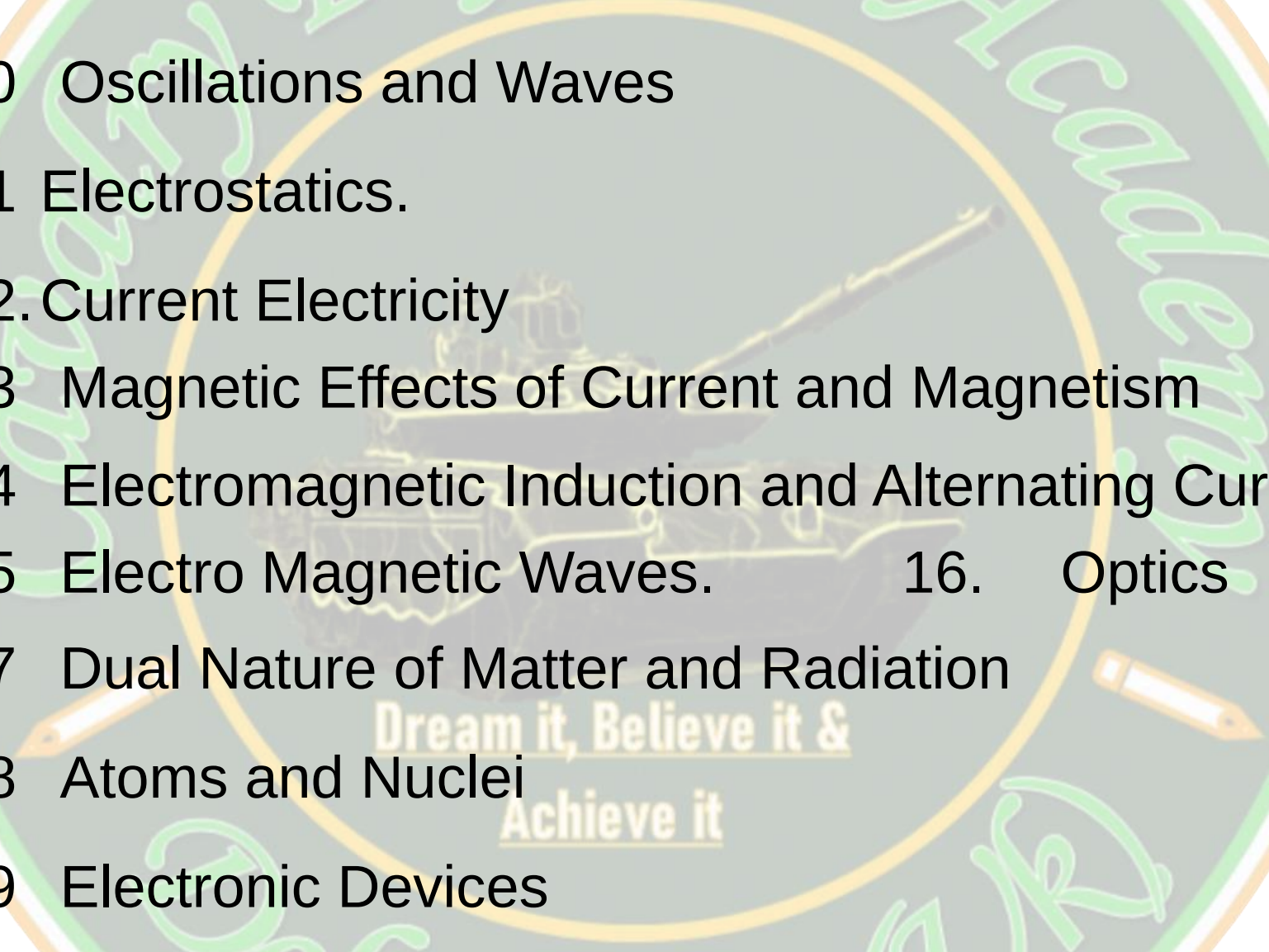
MATHS FOR GROUP 'X' (TECH TRADES)

- 
15. Matrices and Determinants
 16. Limit and Continuity
 17. Differentiation
 18. Applications of Derivatives
 19. Indefinite integrals
 20. Definite Integrals
 21. Applications of the Integrals
 22. Differential Equations
 23. Mathematical Reasoning
 24. Linear Programming
 25. Vector
 26. Probability
 27. Statistics

PHYSICS FOR GROUP 'X' (TECH TRADES)

- 1 Physical World and Measurement
- 2 Kinematics
- 3 Laws of Motion
- 4 Work, Energy and Power
- 5 Motion of System of Particles and Rigid Body.
- 6 Gravitation 7. Properties of Bulk Matter
- 8 Thermodynamics
- 9 Behaviour of Perfect Gases and Kinetic Theory of Gases.

PHYSICS FOR GROUP 'X' (TECH TRADES)

- 
- 10 Oscillations and Waves
 - 11 Electrostatics.
 12. Current Electricity
 - 13 Magnetic Effects of Current and Magnetism
 - 14 Electromagnetic Induction and Alternating Current
 - 15 Electro Magnetic Waves. 16. Optics
 - 17 Dual Nature of Matter and Radiation
 - 18 Atoms and Nuclei
 - 19 Electronic Devices
 - 20 Communication Systems

RAGA FOR GROUP 'Y'

Reasoning (Verbal and Non-Verbal)

- 1.Numerical series.
- 2.Distance and Direction sense Test.
- 3.Mathematical Operations
- 4.Number, Ranking & Time Sequence Test.
- 5.Assign Artificial Values to Mathematical Digit.
- 6.Inserting Correct Mathematical sign.
- 7.Human relation.
- 8.Coding & Decoding

RAGA FOR GROUP 'X' & 'Y'

Reasoning (Verbal and Non-Verbal)

9. Odd man out.
10. Mutual relation problems.
11. Tallest, youngest relations.
12. Dictionary words.
13. Analogy.
14. Non-Verbal reasoning.
15. Number coding.
16. Number Puzzle.

RAGA FOR GROUP 'X' & 'Y'

MATHEMATICS

1. Ratio and Proportion.

2. Average.

3. LCM & HCF.

4. Profit and Loss.

5. Time, Distance and Speed.

6. Percentage.

7. Simplifications of Numbers.

8. Fractions.

9. Area of triangle, Square and Rectangle.

10. Surface Area and volume of Cuboids,
Cylinder, Cone and Sphere.

11. Probability.

12. Simple Trigonometry

RAGA FOR GROUP 'X' & 'Y'

General Knowledge and Current Affairs

1. General Science.
2. Civics
3. Geography
4. Current Events
5. History
6. Basic Computer Operations