

SYLLABUS FOR GROUP 'X' (TECHNICAL)

ENGLISH

I. Comprehension

A small passage followed by questions.

1. To judge comprehension
2. Drawing of inferences
3. Use of vocabulary

II Composition

1. Agreement of subject with verb
2. Pattern of verb and their use.
3. Sequence of tenses.
4. Transformation of sequences-Compound, Complex, Simple, Negative, Affirmative.

III Grammar

1. Spellings
2. Word formation
3. Antonyms and Synonyms
4. One word substitution
5. Correct usage of articles
6. Correct usage of Prepositions
7. Correct usage of adjectives-degrees of comparison
8. Correct usage of conjunctions
9. Correct usage of Nouns and Pronouns
10. Correct usage of numbers (Singular-Plural)
11. Words, which are commonly getting confused
12. Word order
13. Correct usage of Adverbs

IV. Idioms and Phrases

1. Use of simple idioms
2. Use of Common proverbs

V. Direct / Indirect sentences : Narration change

1. Change of various types of sentences from direct to indirect form
2. Change of various types of sentences from indirect to direct form

VI. Active and Passive Voices

1. Change of all types of sentences from active to passive form
2. Change of all types of sentences from passive to active form

PHYSICS

1. Physical World & Measurement
2. Kinematics
3. Laws of Motion
4. Work, Energy & Power
5. Motion of System of particles & Rigid Body
6. Gravitation
7. Properties of Bulk Matter
8. Thermodynamics
9. Behaviour of Perfect Gas & Kinetic Theory of gases
10. Oscillations & Waves
11. Electrostatics
12. Current Electricity
13. Magnetic effect of current & Magnetism
14. Electromagnetic Induction and Alternating current
15. Electromagnetic Waves
16. Optics
17. Dual Nature of Matter
18. Atoms and Nuclei
19. Electronic Devices
20. Communication Systems

MATHEMATICS

1. Sets, Relations, functions
2. Trigonometric functions
3. Inverse Trigonometric functions
4. Complex Numbers
5. Quadratic Equations
6. Sequence & Series (AP & GP)
7. Permutation
8. Combination
9. Binomial Theorem
10. Coordinate geometry – Straight line
11. Coordinate geometry – Circles
12. Coordinate geometry – Parabola
13. Coordinate geometry – Ellipse
14. Coordinate geometry – Hyperbola
15. Exponential Series
16. Logarithmic Series
17. Matrices
18. Determinants
19. Limit & Continuity
20. Differentiation
21. Application of Differentiation
22. Indefinite Integrals
23. Definite Integrals
24. Application of Integration
25. Differential Equations
26. Probability
27. Statistics