

Group X Syllabus

ENGLISH

1. Comprehension-A small passage followed by questions.

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

2. 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.

3. Grammar

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

4. Idioms and Phrases

1. Use of simple idioms

2. Use of Common proverbs

5. 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

6. 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

19. Definite Integrals
20. Application of Integration
21. Deferential Equations
22. Probability Statistics

Group Y Syllabus

ENGLISH

Same as Group X.

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, Circles, Parabola, Ellipse, Hyperbola
11. Exponential Series
12. Logarithmic Series
13. Matrices
14. Determinants
15. Limit & Continuity
16. Differentiation
17. Application of Differentiation
18. Indefinite Integrals

RAGA

(A) Reasoning (Verbal and Non-Verbal)

1. Numerical Series
2. Distance and Direction Sense Test
3. Mathematical Operations (Assigning Value to Arithmetic Sign)
4. Number Ranking & Time Sequence Test
5. Assign Artificial Values to Mathematical Digit
6. Inserting Correct Mathematical Digit
7. Human Relation
8. Coding and Decoding
9. Odd Man Out
10. Mutual Relation Problem
11. Tallest Youngest Relation
12. Dictionary Words
13. Analogy

14. Non Verbal Reasoning
15. Number Coding
16. Number Puzzle

(B) Mathematics

1. Ratio and proportion
2. Average
3. LCM, HCF
4. Profit and Loss
5. Time, Distance and Speed
6. Percentage
7. Simplification of Numbers
8. Fraction
9. Area of Triangle, Square and Rectangle
10. Surface area and Volume of Cuboid, Cylinder, Cone and sphere
11. Probability
12. Simple Trigonometry

(C) GK and CA

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

1. Current Affairs, Languages, Capitals and Currencies, Common Names, Full Forms and Abbreviations.
2. Eminent Personalities, National : Bird/Animal/Sport/Flower/Anthem/ Song/Flag/Monuments.
3. Sports : Championships / Winners/ Terms/ Number of Players.

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