

Indian Air Force Airmen (Group X and Y) Syllabus

GROUP X

English

- Grammar
- Comprehension
- Sentence Completion and Structure
- Vocabulary
- Articles
- Tenses
- Spelling Test
- Unseen Passages
- Synonyms
- Modals
- Clauses
- Subject-verb concord
- Verb formation and error in their use
- Sentence transformation

Physics

- The motion of System of Particles and Rigid Body
- Gravitation
- Properties of Bulk Matter
- Electronic Devices
- Communication Systems
- Dual Nature of Matter and Radiation
- Oscillations and Waves
- Electrostatics
- Current Electricity
- Magnetic Effects of Current and Magnetism
- Electromagnetic Induction and Alternating Current
- Electro-Magnetic Waves
- Optics
- Laws of Motion
- Work, Energy, and Power

Mathematics

- Partial fractions
- Algebra
- Binomial Theorem
- The Transformation of Axes
- Parabola
- Differentiation
- Applications of Derivatives
- Direction Cosines and Direction Ratios
- Properties of Triangles
- Probability
- Hyperbola
- Ellipse
- Inverse Trigonometric Functions
- Mathematical Induction
- Permutations and Combinations
- Complex Numbers
- Pairs of Straight Lines
- Definite Integrals
- Coordinate Geometry
- The product of Vectors
- Random Variables
- Probability Distributions
- Hyperbolic Functions
- Three-Dimensional Coordinates
- Additions of Vectors

GROUP Y

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Reasoning and General Awareness

- Similarities & Differences
- Decision Making
- Spatial Orientation
- Analysis
- Judgment
- Arithmetic Reasoning
- Arithmetical Number Series
- Observation
- Visual Memory
- Relationship Concepts
- Coding & Decoding
- Statement Conclusion
- Non-Verbal Series
- Verbal and Figure Classification
- Syllogistic Reasoning
- Analogies
- Computer Knowledge
- Indian Culture
- Agriculture
- Business
- Other Related Social Matters
- Basic Human Behaviour
- History of India
- National Movements