

Indian Airforce Group X Syllabus: Complete Exam Pattern & Marking Scheme

Airforce Group X Exam Overview

Particular	Details
Exam Mode	Online (Computer Based Test)
Question Type	Multiple Choice Questions (MCQs)
Subjects	English, Physics and Mathematics
Total Questions	70
Total Marks	70
Exam Duration	60 Minutes
Marking Scheme	+1 for Correct Answer
Negative Marking	-0.25 for Wrong Answer
Standard of Questions	10+2 (CBSE Level)
Official Website	https://agnipathvayu.cdac.in/AV/

Airforce X Group Exam Pattern

Subject	Questions	Marks
English	20	20
Physics	25	25
Mathematics	25	25
Total	70	70

Candidates should divide their preparation according to the marks. Physics and Mathematics together carry almost 70% of the paper.

Air Force Group X Marking Scheme

Candidates should understand the exam pattern before attempting the examination. This helps in managing time effectively.

- The exam is conducted online.
- All questions are objective type.
- Each correct answer carries 1 mark.
- There is negative marking of **0.25 marks** for every wrong answer.
- Unanswered questions do not carry any penalty.
- The total duration is **60 minutes**.
- The difficulty level is based on the Class 12 Science syllabus.

1. Airforce X Group English Syllabus (20 Questions)

The official English paper tests grammar, vocabulary, and reading skills. Regular practice can improve both speed and accuracy.

- **Comprehension:** A short passage followed by questions to test understanding, inference, and vocabulary based on the text.
 - **Grammar:**
 - o Subject-Verb Concord
 - o Sequence of Tenses
 - o Transformation of Sentences (Simple, Negative, Compound, Complex, Affirmative)
 - o Formation of Words (Nouns from verbs, adjectives, etc.)
 - o Articles and Determiners
 - o Prepositions, Nouns, and Pronouns
 - o Adjectives (Degrees of Comparison) and Adverbs
 - o Conjunctions and Modals
 - o Clauses (Noun, Adverb, and Relative clauses)
 - **Vocabulary:**
 - o Synonyms and Antonyms
 - o One-word Substitution
 - o Spelling mistakes/errors
 - o Idioms and Phrases
 - o Words commonly confused
 - **Sentence Restructuring:**
 - o Jumbled Sentences (Word order)
 - **Voice & Narration:**
 - o Active and Passive Voice
 - o Direct and Indirect Speech
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2. Airforce X Group Physics Syllabus (25 Questions)

Physics carries **25 questions** in the Air Force Group X examination. Therefore, it plays a major role in your final score. The questions are based on the Class 12 (10+2) level. Most questions test your concepts and numerical solving ability.

Candidates should understand the theory first. After that, they should practice numerical problems and previous year's questions.

- Physical World and Measurement
- Kinematics
- Laws of Motion
- Work, Energy, and Power
- Motion of System of Particles and Rigid Body
- Gravitation
- Properties of Bulk Matter
- Thermodynamics
- Behaviour of Perfect Gas and Kinetic Theory
- Oscillations and Waves
- Electrostatics

- Current Electricity
- Magnetic Effects of Current and Magnetism
- Electromagnetic Induction and Alternating Current
- Electromagnetic Waves
- Optics (Ray Optics and Wave Optics)
- Dual Nature of Matter and Radiation
- Atoms and Nuclei
- Electronic Devices (Semiconductor Electronics)
- Communication Systems

3. Air force Group X Maths Syllabus (25 Questions)

Mathematics also contains **25 questions** in the examination. This section checks your calculation speed and problem-solving skills. Regular practice is the key to scoring high marks.

- Sets, Relations, and Functions
- Trigonometric Functions & Inverse Trigonometric Functions
- Complex Numbers and Quadratic Equations
- Linear Inequalities / Linear Programming
- Mathematical Induction & Mathematical Reasoning
- Permutations and Combinations
- Binomial Theorem
- Sequences and Series
- Coordinate Geometry:
 - o Cartesian System of Rectangular Coordinates
 - o Straight Lines and Family of Lines
 - o Circles and Family of Circles
 - o Conic Sections
- Matrices and Determinants
- Limit and Continuity
- Differentiation and Applications of Derivatives
- Integrals (Definite and Indefinite) and Applications of Integrals
- Differential Equations
- Vector Algebra
- Three-Dimensional Geometry
- Probability and Statistics



Note: This PDF was prepared in July 2026 by Team [The Lucknow Classes](https://www.thelucknowclasses.com). So, we suggest to aspirants that you must verify it from latest Notification Released by Indian Airforce before starting their preparation.