

Air Force Group X Syllabus 2022

In the recruitment process of Air Force Group X Exam, Online Test is the first stage. In this test, questions are asked from English, Maths and Physics. The Online Test is of a total of 70 marks and is objective in nature. Questions in the online test are asked from diverse range of topics under these three broad subjects. The detailed subject-wise syllabus for Air Force Group X Exam is as follows:

Air Force Group X Syllabus: Mathematics

Mathematics is an important section for Air Force Group X Exam. Often candidates find this section tough as the time limit to solve questions is less and questions from maths can be tricky. Candidates must practice a lot before the exam in order to score well in this section. Air Force Group X Syllabus for Mathematics section is as follows:

- Sets, Relations, and function
- Trigonometric Functions
- Inverse Trigonometric Functions
- Complex Number and Quadratic Equations
- Linear Inequalities
- Mathematical Induction
- Permutations and Combinations
- Binomial Theorem
- Sequences and Series
- Cartesian system of rectangular coordinates
- Straight lines and family of lines
- Circles and family of circles
- Conic sections
- Three-dimensional Geometry
- Matrices and Determinants
- Limit and Continuity
- Differentiation
- Applications of Derivatives
- Indefinite integrals
- Definite Integrals
- Applications of the Integrals
- Differential Equations
- Mathematical Reasoning
- Linear Programming
- Vector
- Probability
- Statistics

Download Free Mathematics Syllabus and Model Paper PDF- [Click Here](#)

Air Force Group X Syllabus: English

A total of 20 questions are asked from this section in Air Force Group X Exam. Candidates must brush up their grammatical skills for this section and prepare the following range of topics:

- **Comprehension**
- **Grammar**

1. Verb
2. Tenses
3. Transformation of Sentences: Compound, Complex, Simple, Negative, Affirmative, Comparative degree, Positive degree, Superlative degree etc
4. Formation of words - Nouns from verbs and adjectives, Adjectives from nouns and verbs, Adverbs from adjectives etc
5. Determiners
6. Prepositions
7. Nouns
8. Adverb
9. Adjective
10. Conjunction
11. Modals
12. Clauses - Noun clauses, Adverb clauses of condition and time and Relative clauses

- **Vocabulary**

1. Synonyms and Synonyms 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

- **Narration**

1. Commands and requests
2. Statements (Various tenses)
3. Questions (Various forms of questions, tenses, etc.)

- **Voice (Active and Passive)**

1. Changes required under each tense
2. Other conditions for transforming Active into Passive

- (a) The Preposition
- (b) Modal auxiliaries
- (c) Infinitive
- (d) Participles

Download Free English Syllabus and Model Paper PDF- [Click Here](#)

Air Force Group X Syllabus: Physics

Physics is an important topic for Air Force Group X Recruitment Exam. 25 questions are asked from this section in the exam. The syllabus for Physics is as follows:

- 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 Gases and Kinetic Theory of Gases
- Oscillations and Waves
- Electrostatics
- Current Electricity
- Magnetic Effects of Current and Magnetism
- Electromagnetic Induction and Alternating Current
- Electro Magnetic Waves
- Optics
- Dual Nature of Matter and Radiation
- Atoms and Nuclei
- Electronic Devices
- Communication Systems