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Indian Air Force Group X and Y Syllabus 2018

Indian Air Force Group X and Y Selection Process:

- Phase - I: Online Test
- Phase - II: Written Examination, Physical Fitness Test, Adaptability Test- I (for both group X and Group Y Trades - Objective type written test), Adaptability Test -II
- Phase III: Medical Examination

Indian Air Force Exam Pattern 2018

Trades	Subjects	Time Duration	Exam Syllabus
Group X	English, Physics & Maths	60 Minutes	10+ CBSE Exam
Group Y	English, Reasoning & general Awareness	45 Minutes	
Both Group X & Y	English, Physics, Maths, Reasoning & General Awareness	85 Minutes	

Indian Air Force PFT:

- 1.6 Kms Race in 6.5 Minutes
- 10 Pushups
- 10 Sit-ups
- 20 Sqats

Medical Examination

Include Baseline Investigation of :-

(a) Blood Haemogram - Hb, TLC, DLC (b) Urine RE/ME (c) Biochemistry

- (i) Blood Sugar Fasting & PP (ii) Serum Cholesterol (iii) Urea, Uric acid, Creatinine
- (iv) LFT - Serum Bilurubin, SGOT, SGPT (d) X- Ray chest (PA view) (e) ECG (R).

India Air Force Syllabus 2018

Group X Syllabus

ENGLISH

- Comprehension-A small passage followed by questions.
- To judge comprehension
- Drawing of inferences
- Use of vocabulary
- Composition
- Agreement of subject with verb
- Pattern of verb and their use.
- Sequence of tenses.
- Transformation of sequences-Compound, Complex, Simple, Negative,
- Affirmative.
- Grammar
- Spellings
- Word formation
- Antonyms and Synonyms
- One word substitution
- Correct usage of – articles, Prepositions, adjectives-degrees of comparison,
- conjunctions, Nouns and Pronouns and numbers (Singular-Plural)
- Words, which are commonly getting confused
- Word order
- Correct usage of Adverbs
- Idioms and Phrases
- Use of simple idioms
- Use of Common proverbs
- Direct/Indirect sentences : Narration change

- Change of various types of sentences from direct to indirect form
- Change of various types of sentences from indirect to direct form
- Active and Passive Voices
- Change of all types of sentences from active to passive form
- Change of all types of sentences from passive to active form

PHYSICS

- Physical World & Measurement
- Kinematics
- Laws of Motion
- Work, Energy & Power
- Motion of System of particles & Rigid Body
- Gravitation
- Properties of Bulk Matter
- Thermodynamics
- Behaviour of Perfect Gas & Kinetic Theory of gases
- Oscillations & Waves
- Electrostatics
- Current Electricity
- Magnetic effect of current & Magnetism
- Electromagnetic Induction and Alternating current
- Electromagnetic Waves
- Optics
- Dual Nature of Matter
- Atoms and Nuclei
- Electronic Devices
- Communication Systems

MATHEMATICS

- Sets, Relations, functions
- Trigonometric functions
- Inverse Trigonometric functions
- Complex Numbers
- Quadratic Equations
- Sequence & Series (AP & GP)

- Permutation
- Combination
- Binomial Theorem
- Coordinate geometry – Straight line, Circles, Parabola, Ellipse, Hyperbola
- Exponential Series
- Logarithmic Series
- Matrices
- Determinants
- Limit & Continuity
- Differentiation
- Application of Differentiation
- Indefinite Integrals
- Definite Integrals
- Application of Integration
- Differential Equations
- Probability Statistics

Group Y Syllabus

RAGA

(A) Reasoning (Verbal and Non-Verbal)

- Numerical Series
- Distance and Direction Sense Test
- Mathematical Operations (Assigning Value to Arithmetic Sign)
- Number Ranking & Time Sequence Test
- Assign Artificial Values to Mathematical Digit
- Inserting Correct Mathematical Digit
- Human Relation
- Coding and Decoding
- Odd Man Out
- Mutual Relation Problem
- Tallest Youngest Relation
- Dictionary Words
- Analogy
- Non Verbal Reasoning

- Number Coding
- Number Puzzle

(B) Mathematics

- Ratio and proportion
- Average
- LCM, HCF
- Profit and Loss
- Time, Distance and Speed
- Percentage
- Simplification of Numbers
- Fraction
- Area of Triangle, Square and Rectangle
- Surface area and Volume of Cuboid, Cylinder, Cone and Sphere
- Probability
- Simple Trigonometry

(C) GK and CA

- General Science
- Civics
- Geography
- Current Events
- History
- Basic Computer Operation

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