

INDIAN AIR FORCE

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AIR FORCE – (GROUP – X & Y) EXAMINATION PATTERNS

AIR FORCE ⇒	ORs (Officer Ranks)	PBOR ↓	Group – X (Technical Trades)				
	PBOR (Persons below officers rank) ⇒	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td style="text-align: center;">AIRMEN</td></tr> <tr><td style="text-align: center;">↓</td></tr> <tr><td style="text-align: center;">14 ASCS</td></tr> <tr><td style="text-align: center;">↓</td></tr> <tr><td style="text-align: center;">CASB</td></tr> </table>	AIRMEN	↓	14 ASCS	↓	CASB
AIRMEN							
↓							
14 ASCS							
↓							
CASB							

There are following stages of this exam –

1 st Stage	2 nd Stage	3 rd Stage	4 th Stage	5 th Stage	Final
Written Exam ⇒	Psychological Test ⇒	Physical ⇒	Adaptability Test #2 (Self-Description & GD) ⇒	Medical Test ⇒	Merit

Written Examination:

(i) AIR FORCE – X

Sections	Subject	Maximum Marks	Duration
I	ENGLISH	20	1 HOUR
II	PHYSICS	25	
III	MATHEMATICS	25	
Total		70 Questions of 70 Marks	

(ii) AIR FORCE – Y

Sections	Subject	Maximum Marks	Duration
I	ENGLISH	20	45 MINUTES
II	REASONING & GENERAL AWARENESS	30	
Total		50 Questions of 50 Marks	

II – Section of AIR FORCE – Y consists of the following Sections:

Reasoning & General Awareness Section involves	Maximum Marks = 30
ARITHMETIC MATHEMATICS	11
REASONING ABILITY	13
COMPUTER	1
G.K	5
Total	30 Questions of 30 Marks

(iii) AIR FORCE – Both X & Y GROUPS

Sections	Subject	Maximum Marks	Duration
I	ENGLISH	20	85 MINUTES
II	PHYSICS	25	
III	MATHEMATICS	25	
IV	REASONING & GENERAL AWARENESS	30	
Total		100 Questions of 100 Marks	

SYLLABUS OF THE ABOVE EXAMS :

AIR FORCE – X

(I) ENGLISH

Comprehension: A small passage followed by questions.

⇒ To judge comprehension ⇒ Drawing of inferences ⇒ Use of vocabulary

AIR FORCE – (GROUP – X & Y) EXAMINATION PATTERNS

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 ⇒ Antonyms and Synonyms ⇒ One word substitution ⇒ Correct use of Prepositions
- ⇒ Correct usage of adjectives ⇒ Correct use of conjunctions ⇒ Correct usage of numbers
- ⇒ Correct usage of Nouns and Pronouns ⇒ Words, which are commonly getting confused
- ⇒ Word order ⇒ Correct usage of Adverbs ⇒ Word formation ⇒ Correct usage of articles

Idioms and Phrases:

- ⇒ Use of simple idioms ⇒ Use of Common proverbs

Direct / Indirect sentences: Narration change

Active and Passive Voices:

(II) PHYSICS

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

(III) MATHEMATICS

→ Sets, Relations, functions → Trigonometric functions → Inverse Trigonometric functions → Permutation
→ Combination → Complex Numbers → Quadratic Equations → Sequence & Series (AP & GP) → Matrices
→ Binomial Theorem → Exponential Series → Logarithmic Series → Determinants → Limit & Continuity
→ Differentiation → Application of Differentiation → Indefinite Integrals → Definite Integrals → Probability
→ Statistics → Application of Integration → Differential Equations → Coordinate geometry ⇒ Straight line,
→ Parabola → Ellipse → Hyperbola → Circles

AIR FORCE - Y ENGLISH

SAME AS GROUP – X, MENTIONED ABOVE

REASONING & GENERAL AWARENESS

(A) Reasoning (Verbal and Non-Verbal)

- | | | |
|--|--|--------------------------------|
| (1) Numerical Series | (2) Distance and Direction Sense Test | (3) Number Puzzle |
| (4) Mathematical Operations (Assigning Value to Arithmetic Sign) | | |
| (5) Number Ranking & Time Sequence Test | (6) Assign Artificial Values to Mathematical Digit | |
| (7) Inserting Correct Mathematical Digit | (8) Human Relation | (9) Coding and Decoding |
| (10) Odd Man Out | (11) Mutual Relation Problem | (12) Tallest Youngest Relation |
| (13) Dictionary Words | (14) Analogy | (15) Non Verbal Reasoning |
| | | (16) Number Coding |

(B) ARITHMETIC MATHEMATICS

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

(C) G.K. & CURRENT AFFAIRS

- | | | | | |
|------------------------------|------------|---------------|--------------------|-------------|
| (1) General Science | (2) Civics | (3) Geography | (4) Current Events | (5) History |
| (6) Basic Computer Operation | | | | |

HOW SPEED & ACCURACY IS THE CRUX OF ALL COMPETITIVE EXAMS ?

Mathematics

Q.1 If $A+B+C = \pi$ then $\sin A \sin B + \sin B \sin C + \sin C \sin A = ?$

- (a) $\frac{9}{4}$ (b) $\frac{3}{2}$ (c) 1 (d) $\frac{3}{8}$

AIR FORCE – (GROUP – X & Y) EXAMINATION PATTERNS

- Q.2 In a parallelogram ABCD, Coordinates of its three vertices are (2,16) (6,7) & (8,11). Find the coordinates of its fourth vertex ?
 (a) (3,6) (b) (4,5) (c) (4,6) (d) (4,20)
- Q.3 If a, b and c are in A.P. then bc, ca, ab are in ?
 (a) A.P. (b) G.P. (c) H.P. (d) None
- Q.4 What is the differentiation of X ?
 (a) 1 (b) $\frac{1}{x}$ (c) dX (d) None
- Q.5 Find the equation of a line, Which passes through the point (2,3) ?
 (a) $2x - 3y = 5$ (b) $3x - 2y = 0$ (c) $2x + 3y = 1$ (d) $3x - 2y = 6$

English

1. Antonyms, Synonyms & one word substitution → on the basis of the roots –

Roots	Meaning	Examples
Anti	Against, Opposite	Antivirus, Anti-corruption, Antiparty, Antiterrorism, Antipathy, Antibiotic, Antiseptic
Trans	One place to another	Transfer, Transport, Transaction, Transparent, Translation, Translation etc.
Aqua	Water	Aqueous, Aquarium, Aquafina, Aquaguard, Aquatic-animals, Aquatic-plants, etc.
Bio	Life	Biology, Bio-diversity, Bio-fuel, Bio-mass, Bio-molecule, Autobiography etc.

2. Para - Jumbles (Sequencing) → Cause- Effect relationship
 → Noun-Pronoun Sequence → Mandatory Pair → Chronology → Article way
3. Passages → Direct based – (CUT-COPY –PASTE)
 → Inference based – on the basis of Critical Reasoning – Need to understand force of Argument, Tone of a passage & type of statement.
4. Grammar → According to the rules & regulations of modern English usage.

Course Details – Air Force (X+Y) Fee – Rs. 12500 /- only

Air Force (X or Y) Fee – Rs. 9500 /- only

Study Material (X+Y) = 2500/- ; Study Material (X or Y) = 1500/-

- Course wrapping up - → Basic Clarity → Advance Level → Typical Level → Revision
- Test Series - → 10 Full Length Test Series → Sectional Tests → Weekly Tests
- Workshops - → Test Series Result Analysis workshop → Current Affairs Analysis
- Interview Classes- → Personnel Interview
- Psychological Test- → Expected Questions / Situations
- Notes / Study Material- → English → Physics → Reasoning → Current Affairs → Maths Booklets

