

$M_q^g$  = is the sum of mean and standard deviation marks of the candidates in the examination considering all shifts.

$\bar{M}_{ti}$  = is the average marks of the top 0.1% of the candidates in the  $i^{\text{th}}$  shift (number of candidates will be rounded-up).

$M_{iq}$  = is the sum of mean marks and standard deviation of the  $i^{\text{th}}$  shift.

$M_{ij}$  = is the actual marks obtained by the  $j^{\text{th}}$  candidate in  $i^{\text{th}}$  shift.

$M_q^{gm}$  = is the sum of mean marks of candidates in the shift having maximum mean and standard deviation of marks of candidates in the examination considering all shifts.

8.1.6. Candidates are required to appear for the Online AFCAT in person. Under no circumstance will any scribe or another candidate be allowed to appear/ assist in the exam.

8.1.7. Indian Air Force has the discretion to fix qualifying marks in any or all the subjects of the examination.

## 8.2. **Standard and Syllabus of the Examination:**

### 8.2.1. **Syllabus.**

8.2.1.1. **English.** Comprehension, Detect Error in Sentence, Sentence Completion/ Filling in of correct word, Synonym/ Antonym, Cloze Test or Fill in the Gaps in a paragraph, Idioms and Phrases, Analogy, Sentence Rearranging, Substitution in a Sentence/ One Word Substitution. Transformation of Sentence (Complex to Simple), Homonyms.

8.2.1.2. **General Awareness.** History, Geography, Sports, National & International Organisations, Art & Culture, Personalities, Environment & Ecology, Indian Polity, Economy, Basic Science Based Knowledge, Science & Technology, Current Affairs (National & International), Defence.

8.2.1.3. **Numerical Ability.** Decimal Fraction, Time and Work, Average/ Percentage, Profit & Loss, Ratio & Proportion, Simple and Compound Interest, Time & Distance and Races (Trains/ Boats & Streams), Area and Perimeter, Probability, Number System & Number Series, Mixture & Allegation Rules, Square & Square root/Cube & Cube roots, HCF & LCM, Elementary Mensuration, Heights and Distance, Statistics (Mean, Median and Mode), Exponents and powers.

8.2.1.4. **Reasoning and Military Aptitude Test.** Verbal and Non-Verbal Reasoning

8.2.2. **Standard.** The standard of Numerical Ability Questions will be of Matriculation level. The standard of questions in other subjects will be of graduation level (Indian University).

8.3. **Practice Test.** An online Practice Test is available on the IAF website <https://afcat.edcil.co.in>.

8.4. **Instructions for e-Admit Card and AFCAT Written Examination.**