



**(AFCAT)**  
**AIR FORCE COMMON ADMISSION TEST**  
**SYLLABUS**

- ✉ E-mail ID : [pioneeracademypace@gmail.com](mailto:pioneeracademypace@gmail.com)
- 🌐 Website:-[www.pioneeracademypace.com](http://www.pioneeracademypace.com)
- 📘 <https://www.facebook.com/pioneerface/>
- 🐦 [https://twitter.com/pioneer\\_twitt](https://twitter.com/pioneer_twitt)
- 📞 IVR No. – 75060 10635

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**AIR FORCE COMMON ADMISSION TEST (AFCAT)**

**SYLLABUS**

The AFCAT written test will judge the basic aptitude of the applicant through subjects like English, General Awareness, and Numerical Ability. The test will also judge the Military Aptitude of the candidate. The highest number of questions will be asked in this section, i.e. 100. The duration of this test will be 2 hours.

**AFCAT Syllabus - English**

The following are the topics that will be covered in the English section of the AFCAT written test.

- Synonyms
- Comprehension
- Error Detection
- Idioms and Phrases
- Antonyms
- Vocabulary
- Sentence Completion/Filling in of correct word

**AFCAT Syllabus - General Awareness**

The standard of questions for general awareness will be as that as of the graduate level. Candidates are expected to possess knowledge of the following topics.

- History
- Geography
- Civics
- Culture
- Basic Science .Politics
- Environment

## PIONEER ACADEMY FOR COMPETITIVE EXAMINATIONS

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- Defence
- Art
- Current Affairs
- Sports etc.

### **AFCAT Syllabus - Numerical Ability**

The level of difficulty for this section will be that of Matriculation level and not from the graduation level unlike other sections

- Time and Work
- Simple Interest
- Profit & Loss
- Average
- Percentage Decimal Fraction
- Ratio & Proportion
- Time & Distance (Trains/Boats & Streams).

## PIONEER ACADEMY FOR COMPETITIVE EXAMINATIONS

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### AFCAT Syllabus – Engineering Knowledge Test

This test will be given by only those candidates who will apply for Technical posts.

In this section, questions will be specific to the stream of graduation like Computer Science, Mechanical, and Electrical & Electronics. The questions for this section will be asked from the core technical subjects of the mentioned branches. A total of 50 questions will be asked in this section.

### AFCAT Syllabus - Engineering Subjects

Computer Engineering	Science	Electronics Engineering	Mechanical Engineering
<ul style="list-style-type: none"> <li>• Analog and Digital Electronics Switching Theory</li> <li>• Information Technology</li> <li>• Electronic Devices</li> <li>• Computer Networks</li> <li>• Network Theory Design</li> <li>• Telecommunication Systems</li> <li>• Microwave Engineering</li> <li>• Antenna and Wave</li> <li>• Propagation</li> <li>• Radar Theory</li> <li>• Instrumentation</li> <li>• Electrical Engineering</li> </ul>		<ul style="list-style-type: none"> <li>• Control Engineering</li> <li>• Analog and Digital Electronics</li> <li>• Electrical Engineering</li> <li>• Instrumentation</li> <li>• Microwave Engineering</li> <li>• Antenna and Waves</li> <li>• Electronic Devices</li> <li>• Control Engineering</li> <li>• Telecommunication Systems</li> <li>• Propagation</li> <li>• Network Theory Design</li> <li>• Swathing Theory</li> <li>• Information Technology</li> <li>• Computer Networks</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Mechanics</li> <li>• Fluid mechanics Hydraulic Machines</li> <li>• Thermodynamics</li> <li>• Aircraft Structures</li> <li>• Theory of Machines,</li> <li>• Automotive Engineering</li> <li>• Power Plant Engineering</li> <li>• Industrial Engineering</li> <li>• Manufacturing Science</li> <li>• Materials Science</li> <li>• Flight Mechanics</li> <li>• Aerodynamics</li> </ul>