AMCAT Syllabus

Contents:

Please note: For details on AMCAT syllabus you can also visit:

https://www.myamcat.com/amcat-syllabus

1. Language:

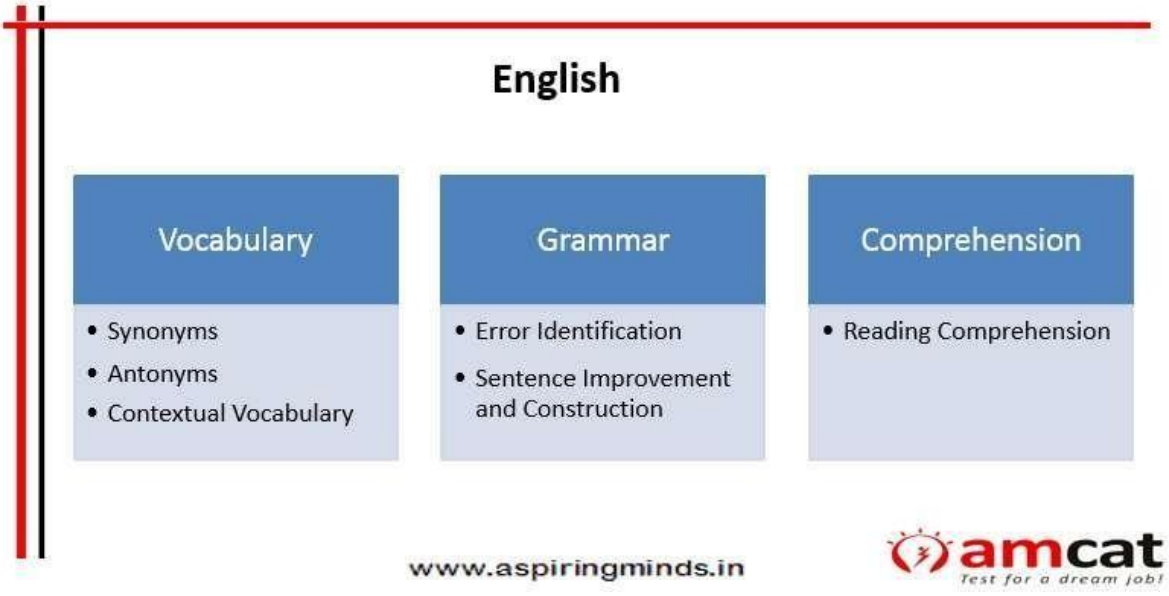
11.1 English:

Familiarity with English Language in its various nuances is an essential skill, especially in the current climate of global networking. Ideally, any recruitment should involve a test of skills in handling the Language in ways that promote the objectives of a company and establish desired rapport. Needless to state, an appropriate test is necessary.

AMCAT English evaluation is ideal to evaluate written English skills of an individual. Our English Test uses a variety of internationally standardized resources for framing questions aimed at determining the candidate's ability to understand (a) the written text (b) the spoken word and
(c) communicate effectively through written documents.

The test broadly covers the following areas:

- A wide-ranging Vocabulary to cope with general and specific terminology.
- Syntax and sentence structure, the incorrect use of which distorts meaning and becomes a communication hurdle.
- Comprehension exercises designed to test a candidate's ability to read fluently and understand correctly.
- The ability to understand and use suitable phrases, which enrich the meaning of what, is conveyed.

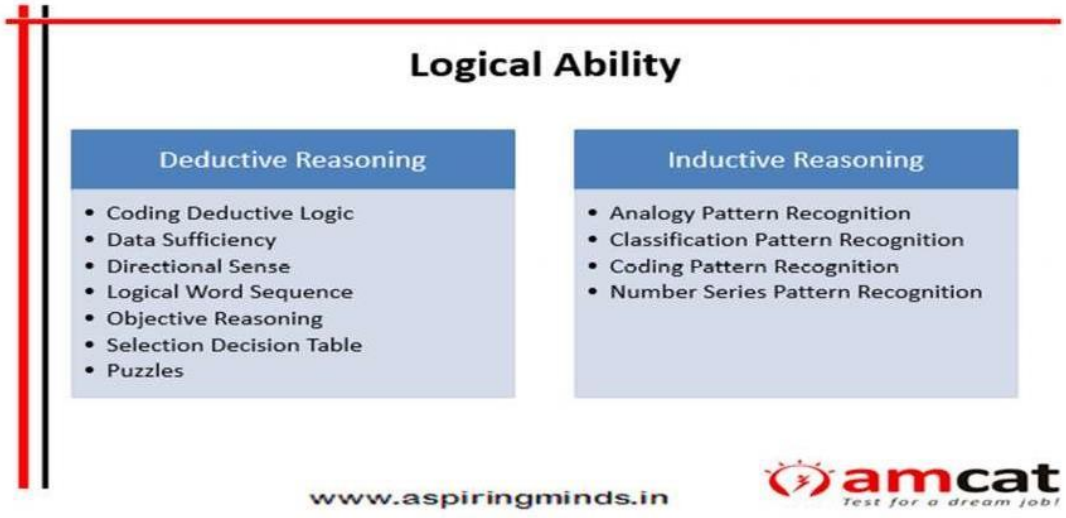


2. Cognitive:

2.1- Logical Ability:

The Logical Ability section assesses capacity of an individual to interpret things objectively, to be able to perceive and interpret trends to make generalizations and be able to analyze assumptions behind an argument/statement. These abilities are primary for success of a candidate in the industry. Specifically, these are divided into following sections:

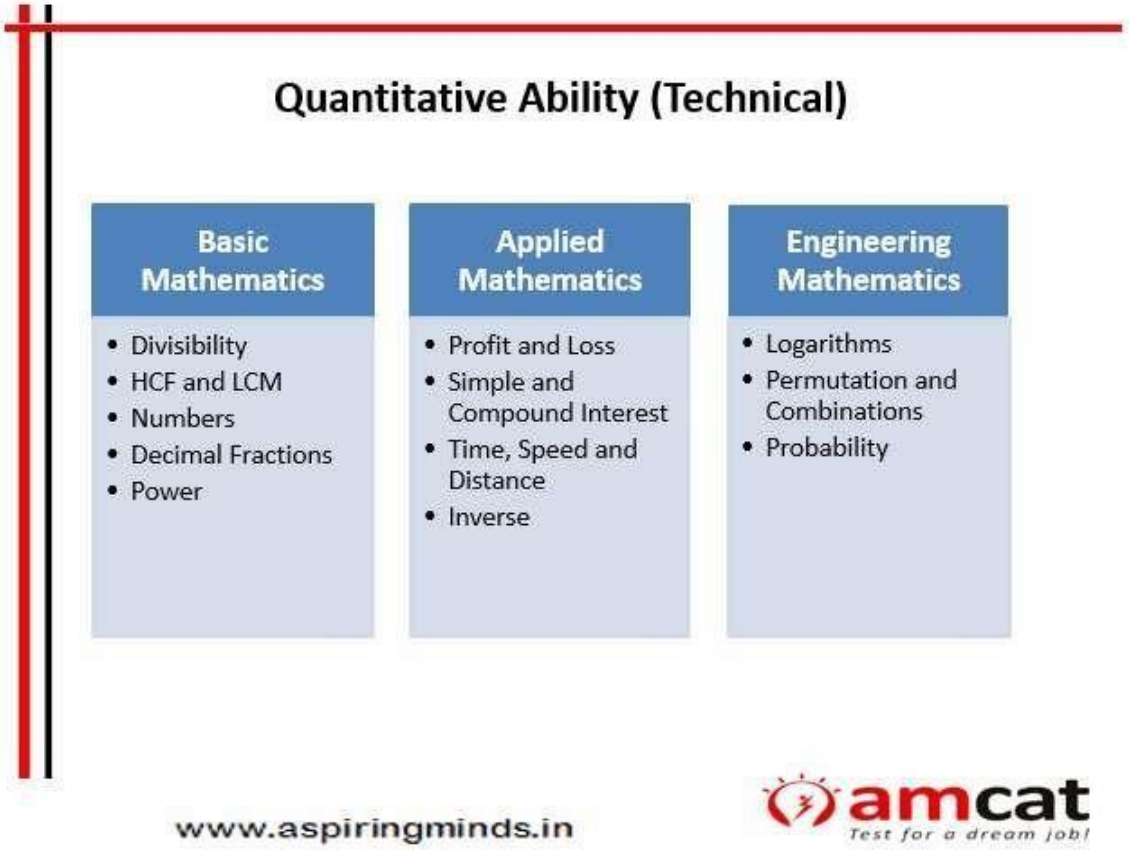
- **Deductive Reasoning:** Assesses the ability to synthesize information and derive conclusions.
- **Inductive Reasoning:** Assesses the ability to learn by example, imitation or hit-and-trial. This also provides an indication of how creative the individual is.
- **Abductive Reasoning:** Assesses the critical thinking ability of an individual to see through loopholes in an argument or group of statements. All these abilities are tested both using numerical and verbal stimuli. Various case studies have shown AMCAT Logical Ability to strongly correlate to technical trainability, soft-skill trainability and process trainability. It also demonstrates strong correlation to performance in roles of analysts and knowledge processes. Certain thresholds of logical ability also correlate to sales and support related role performance.



3. Quantitative Ability (Technical)

The Quantitative ability section measures the numerical ability and accuracy in mathematical calculations. The questions range from purely numeric calculations to problems of arithmetic reasoning, percentage analysis and quantitative analysis. Specifically, these are divided into following sections -

- **Basic Mathematics:** This section tests whether the candidate understands basic number system, i.e., fractions, decimals, negative, positive, odd, even numbers, rational numbers, etc. The candidate should know how to do basic operations on these numbers, understand concepts of factors/divisibility and have good practice on algebra.
- **Applied Mathematics:** Apart from operations on numbers, the candidate should know how to convert a real-world problem into equations, which could be solved to find an unknown quantity. Students need to be competent in reading and using quantitative data, in understanding quantitative evidence and in applying basic quantitative skills to the solution of real-life problems in order to perform effectively as professionals and citizens. To assess the same, the candidates are tested on Word Problems representing various real world scenarios.
- **Engineering Mathematics:** These are aspects of mathematics needed for Engineering disciplines and analysis of data. This includes permutation-combination, probability and understanding of logarithms.



2. Behavioural

3.1 - AM Personality Inventory

AMPI, Aspiring Minds' flagship personality assessment is based on the contemporary five- factor model of personality also commonly known as the "Big Five" model. It measures five broad traits: Extraversion, Conscientiousness, Emotional Stability, Openness to Experience and Agreeableness. International studies have shown the Big Five model to be the most effective model to predict job performance.

AMPI is being deployed as a selection filter and for internal workforce evaluation. Being India's most deployed Personality tool, over quarter a million candidates have been evaluated on AMPI for various job roles across different sectors. It is also useful in being able to predict success in roles spanning from sales, customer service, relationship management, collections, technical support, managerial roles, leadership, etc.

AMPI is uniquely constructed to remove cultural and linguistic biases and is ideal for developing economies. The tool works effectively in evaluating individuals who would have not faced job situations in the past and hence effective in evaluating entry level talent as well.

4. Automata Modules

4.1 Automata Fix (C, C++, Java – Any one language to opt)

In this module, the candidate must fix logical/syntax error of the code or completes the given code by reusing existing functions.

Befitting Job Functions/Profiles: Full Stack Developer, Game Developer, Game Programmer, Mobile App Developer, Embedded Software Engineer, Software Architect, Software Developer, Computer and Information Research Scientist, Back End Developer, Software Quality Assurance Engineer.

Number of Questions: 7

Module Duration: 20 minutes

Detailed Syllabus:

- Basic programming
- Control Structures
- conditional statements
- Linear data structures
- Advanced data structures
- Sorting and searching algorithms

Automata (C, C++, Java, Python): Choose any one language

Simulated Programming assessment, Automata2.0 has the capability to evaluate programming code beyond correctness, rate quality and norms. The assessment allows evaluation of actual programming skills of a candidate, giving the candidate an opportunity to write the program in an editor, compile and run test cases, all in the assessment environment itself.