CAT Quantitative Aptitude Syllabus 2025

1 Overview

The CAT Quantitative Aptitude (QA) section is designed to test mathematical skills, problem-solving abilities, and numerical reasoning. It covers a wide range of topics from basic arithmetic to advanced concepts in algebra, geometry, and modern mathematics. As per the CAT 2025 exam pattern, the QA section includes 22 questions to be solved in 40 minutes, with a maximum score of 66 marks. Each correct answer awards 3 marks, with a negative marking of -1 for incorrect Multiple-Choice Questions (MCQs) and no negative marking for Type In The Answer (TITA) questions.

2 Quantitative Aptitude Syllabus

The Quantitative Aptitude section encompasses the following key topics:

- **Arithmetic**: Percentages, Profit and Loss, Simple and Compound Interest, Ratio and Proportion, Averages, Mixtures and Alligations, Time and Work, Time, Speed, and Distance.

- **Algebra**: Linear and Quadratic Equations, Inequalities, Functions, Progressions (Arithmetic, Geometric, Harmonic), Logarithms.

- **Geometry and Mensuration**: Lines and Angles, Triangles, Circles, Polygons, Coordinate Geometry, Areas, Volumes, and Surface Areas.

- **Number System**: Divisibility, Factors and Multiples, LCM and HCF, Remainders, Number Properties.

- **Modern Mathematics**: Permutations and Combinations, Probability, Set Theory, Sequences and Series.

3 Topic-Wise Weightage

Based on previous years' trends, the expected number of questions from each topic is as follows:

A total of 22 questions are expected in the QA section, with Arithmetic typically dominating the section, followed by Algebra and Geometry.

4 CAT QA Exam Pattern 2025

The QA section in CAT 2025 consists of the following details:

Topic	Types of Questions	Number of Questions
Arithmetic	Problems on percentages, profit/loss, time and work, speed and distance, ratios, averages	8–10
Algebra	Linear/quadratic equations, inequalities, functions, progressions	5–7
Geometry and Mensuration	Properties of triangles, circles, polygons, coordinate geometry, areas and volumes	3–5
Number System	Divisibility, LCM/HCF, remainders, number properties	2–4
Modern Mathematics	Permutations, combinations, probability, set theory	2–4

Table 1: Expected Question Distribution for Quantitative Aptitude

Particulars	Details
Section Name	Quantitative Aptitude
Time Allotted	40 minutes
Total Number of Questions	22
Total Marks	66
Types of Questions	MCQ and TITA
Marks for Correct Answer	+3
Marks for Incorrect Answer (MCQ)	-1
Marks for Incorrect Answer (TITA)	0
Difficulty Level	Moderate to High

Table 2: CAT QA Exam Pattern 2025