

RRB Technician 2025 Grade I – Exam Pattern

CBT Details:

- Each Pay Level has a separate CBT.
- Duration: 90 minutes | Total Questions: 100
- Negative Marking: 1/3rd marks for each wrong answer
- Normalization: Marks are normalized for exams held in multiple shifts

Eligibility Marks:

- UR / EWS: 40%
- OBC (NCL) / SC: 30%
- ST: 25%
- PwBD Candidates: Relaxation of 2% in case of shortage of candidates for reserved vacancies

RRB Technician 2025 Grade I Signal CBT – Questions & Marks

Subject	No. of Questions	Marks per Section
General Awareness	10	10
General Intelligence & Reasoning	15	15
Basics of Computers & Applications	20	20
Mathematics	20	20
Basic Science & Engineering	35	35
Total	100	100

RRB Technician 2025 Grade 1 Syllabus

1. General Awareness:

Focus on current affairs, Indian geography, culture, and history (including freedom struggle), Indian Polity and Constitution, Indian Economy, environmental issues in India and worldwide, sports, and general scientific and technological developments.

2. General Intelligence and Reasoning:

Topics include analogies, alphabetical and number series, coding and decoding, mathematical

operations, relationships, syllogism, jumbling, Venn diagrams, data interpretation and sufficiency, conclusions and decision-making, similarities and differences, analytical reasoning, classification, directions, statement–arguments, and assumptions.

3. Basics of Computers and Applications:

Covers computer architecture, input and output devices, storage devices, networking, operating systems (Windows, Unix, Linux), MS Office, data representation, internet and email, websites & web browsers, and computer viruses.

4. Mathematics:

Topics include number systems, rational and irrational numbers, BODMAS rule, quadratic equations, arithmetic progression, similar triangles, Pythagoras theorem, coordinate geometry, trigonometric ratios, heights and distances, surface area and volume.

- **Sets:** Sets and their representations, empty set, finite and infinite sets, equal sets, subsets, subsets of real numbers, universal set, Venn diagrams, union and intersection of sets, difference of sets, complement of a set, properties of complements.
- **Statistics:** Measures of dispersion including range, mean deviation, variance, and standard deviation of ungrouped/grouped data; probability including occurrence of events, exhaustive events, and mutually exclusive events.

5. Basic Science and Engineering:

- **Physics Fundamentals:** Units, measurements, mass, weight, density, work, power, energy, speed, velocity, heat, and temperature.
- **Electricity and Magnetism:** Electric charge, field and intensity, electric potential and potential difference, simple circuits, conductors and insulators, Ohm's law, resistance in series and parallel, specific resistance, relationship between electric potential, energy and power, Ampere's law, magnetic force on moving charged particles, electromagnetic induction, Faraday's law, electromagnetic flux, magnetic field, and magnetic induction.
- **Electronics and Measurements:** Basic electronics, digital electronics, electronic devices and circuits, microcontroller, microprocessor, electronic measurements, measuring systems and principles, range extension methods, cathode ray oscilloscope (CRO), LCD, LED panel, and transducers.