

RRB Technician Syllabus: Grade I & III Exam Pattern

Here is a quick look at the exam pattern for CBT stages:

Technician Grade 1

Subjects	No of Question	Marks
General Awareness	10	10
General Intelligence and Reasoning	15	15
Basics of Computers and Applications	20	20
Mathematics	20	20
Basics Science and Engineering	35	35
Total	100	100

- **Total Questions:** 100
- **Time:** 90 Minutes
- **Question Type:** Multiple Choice Questions (MCQs)
- **Negative Marking:** 1/3rd for each wrong answer
- **Minimum Passing Marks:** UR & EWS – 40%, OBC (NCL) – 30%, SC-30%, ST – 25%.

Technician Grade 3

Subjects	No of Question	Marks
Mathematics	25	25
General Intelligence and Reasoning	25	25
General Science	40	40
General Awareness	10	10
Total	100	100

- **Total Questions:** 100
- **Time:** 90 Minutes
- **Question Type:** Multiple Choice Questions (MCQs)
- **Negative Marking:** 1/3rd for each wrong answer
- **Minimum Passing Marks:** UR & EWS – 40%, OBC (NCL) – 30%, SC-30%, ST – 25%.

Mathematics

Mathematics tests the numerical and analytical ability of candidates. The topics include:

- Number System
- BODMAS Rule
- Decimals and Fractions
- Percentages
- Ratio and Proportion
- Time and Work
- Time, Speed and Distance
- Simple and Compound Interest
- Profit and Loss
- Geometry and Mensuration
- HCF and LCM
- Algebra
- Trigonometry (Basics)
- Statistics
- Square Roots
- Age Calculations
- Pipes and Cisterns
- Data Interpretation

Tip: Practice with mock tests to build speed and accuracy.

General Intelligence and Reasoning

This section assesses logical thinking and reasoning ability. Key topics are:

- Analogies
- Alphabetical and Number Series
- Coding and Decoding
- Mathematical Operations
- Syllogism
- Venn Diagrams
- Relationships
- Jumbling
- Directions and Distances
- Statement and Conclusion
- Decision Making
- Classification
- Blood Relations
- Puzzles

Tip: Focus on solving different types of puzzles to improve logical skills.

General Science

The questions are based on 10th standard science. It includes:

Physics:

- Laws of Motion
- Force and Gravitation
- Work, Power, Energy
- Heat and Thermodynamics
- Light and Sound
- Electricity and Magnetism

Chemistry:

- Matter and its States
- Elements and Compounds
- Atomic Structure
- Acids, Bases and Salts
- Chemical Reactions
- Metals and Non-metals

Biology:

- Human Body and Health
- Nutrition and Diseases
- Photosynthesis
- Reproduction
- Classification of Organisms
- Environment and Ecosystem

Tip: Refer to NCERT books for a clear understanding of basic science concepts.

General Awareness and Current Affairs

This section checks the candidate's knowledge of national and international affairs. It includes:

- Current Events (Last 6 months)
- Indian History and Freedom Struggle
- Indian Constitution
- Polity and Governance
- Geography
- Economic Developments
- Environmental Issues
- Awards and Honor's
- Books and Authors
- Sports
- Government Schemes

Tip: Read newspapers and follow monthly current affairs magazines to stay updated.

The topics remain the same as in CBT Stage 1 but the difficulty level is slightly higher.

1. Electrician Trade:

- Basic Electrical Engineering
- Circuit and Wiring Systems
- Electric Machines
- Transmission and Distribution
- Electrical Measurements
- Safety Procedures

2. Fitter Trade:

- Fitting Tools and Operations
- Drilling and Tapping
- Welding and Cutting
- Lathe Machine
- Mechanical Assembly
- Safety and Maintenance

3. Electronics Mechanic:

- Electronic Components
- Circuit Design
- Microcontrollers
- Communication Systems
- Digital Electronics
- Troubleshooting

4. Mechanical Trade:

- Thermodynamics
- Machine Design
- Hydraulics
- Power Transmission
- Engineering Drawing