

# Railway Recruitment Board



## Railway Ticket Collector, Guard Exam Pattern

Name of the Subject	Total No. of Questions	Total Marks
General Awareness	25	25
General Intelligence	5	5
Arithmetic	20	20
Technical Subjects	30	30
Reasoning	10	10
General Science	30	30
<b>Total</b>	<b>120 questions</b>	<b>120 Marks</b>

### indianrailways.gov.in TC Syllabus – General Awareness

- Famous Places in India.
- Science and innovations.
- New inventions.
- Scientific observations.
- History of India.
- Geography of India.
- Countries and Capitals.
- National and international current affairs.
- Indian Culture.
- International issues.
- National News (current).
- Political Science.
- Economic issues in India.

# Railway Recruitment Board



- World organizations.
- About India and it's neighboring countries.

## **RRB TC, Guard Exam Syllabus – General Intelligence**

- Space Visualization.
- Problem Solving.
- Decision Making.
- Relationship Concepts.
- Non-Verbal Series.
- Arithmetical Computation.
- Analysis.
- Visual Memory.
- Similarities and Differences.
- Analytical Functions.
- Figure Classification.
- Number Series.

## **RRB TC Exam Syllabus – Arithmetic**

- Simple Interest.
- Boats & Streams.
- Discounts.
- Allegations & Mixtures.
- Profit & Loss.
- Math Operator Replacement.
- Fundamental Operations.
- Geometry.
- Problems on squares, cubes.
- Compound Interest.
- Time & Work.
- Probability.
- Averages.
- Percentages.
- Ratios & Proportions.
- Simplifications.
- Mensuration.
- Number System.
- Time & Distance.
- Problems on Ages.

# Railway Recruitment Board



- Least Common Multiple (LCM) & Highest Common Factor (HCF).

## **RRB Ticket Collector, Guard Syllabus – Technical Subjects**

- Utilization of Electrical Energy.
- Basic Electrical Engineering Concepts.
- Power Electronics & Drives.
- Magnetic Circuit.
- Network Theory.
- Power Systems.
- AC Fundamentals.
- Electrical Machines.
- Measurement as well as measuring instruments.
- Basic Electronics.
- Estimation and costing.
- Analog and Digital Electronics.

## **RRB Guard, Ticket Collector Exam Syllabus - Reasoning**

- Clocks & Calendars.
- Logical Sequence of Words.
- The odd one out.
- Puzzle Test.
- Arrangements.
- Blood Relations.
- Coding-Decoding.
- Inserting the Missing Character.
- Attention to Detail.
- Eligibility Test.
- Mathematical Operations.
- Alphabet Test.
- Classification.
- Statement – Arguments.
- Logic.
- Statement – Conclusions.
- Analogy.
- Alpha-Numeric Sequence Puzzle.
- Number, Ranking & Time Sequence.
- Logical Venn Diagrams.

# Railway Recruitment Board



- Data Sufficiency.

## **RRB Guard Exam Syllabus – General Science**

### **Physics**

- Mechanics of Rigid Bodies: System of particles; Centre of mass, angular momentum, equations of motion.
- Mechanics of particles: Laws of motion; conservation of energy and momentum.
- Electricity and magnetism.
- Waves and optics, interference and Diffraction, Polarization.
- Thermal & Statistical physics.

### **Chemistry**

- Chemical Kinetics.
- Solid, Liquid and gaseous state.
- Atomic Structure.
- Thermodynamics.
- Electrochemistry.
- Photochemistry & Spectroscopy.
- Chemical Bonding.
- Organic Chemistry.
- Coordination Compounds.

### **Biology**

- Biotechnology and its applications.
- Biology and Human Welfare.
- Zoology.
- Ecology and the environment.
- Human Body.
- Genetics and evolution.
- Botany.