

RRB Engineer Recruitment Written Exam Pattern & Syllabus

RRB Engineering Recruitment Exam Pattern			
No. of Question	Time Duration	Negative Marking	Other Details
150 Total Question	2 Hours		1/3 Marks
			N/A
Divided By	Technical Ability & General Science		
90 Question			
60 Question	General Awareness, Arithmetic, General Intelligence and Reasoning		

General Intelligence & Reasoning:-

- Questions will be asked from analogies, similarities and differences, spatial visualization, spatial orientation, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetic reasoning, verbal and figure classification, arithmetical number series, non-verbal series, coding and decoding, statement conclusion, syllogistic reasoning.

Arithmetic:-

- Algebra Basic algebra, factors & simplification, polynomials, Arithmetic Simple & compound interest, installments, taxation, shares & dividends, Ratio & proportion, percentage, time, distance & work, profit & loss, Pipes & Cisterns, Mensuration, Problem on Ages, Investment etc.. From Data Interpretation Use of Tables and Graphs, Histogram, Frequency polygon, Bar-diagram, Pie-chart, Pictorial Graph etc.

General Awareness:-

- Question will be asked from Indian History, Indian Polity, Current Events, Geography, Economy etc. Focus will be on Current national & International events, banking, sports etc. Some questions from Finance & Marketing can be ask in the exam. Focus will be on News related to Railway, Rail Budget, New Technologies & Reform in Indian Railway.

General Science:-

- Questions will be of Basic Concept of Science (Class 12th standard), Questions will be ask from Daily use science. Physics, Chemistry, Biology & Zoology.

Technical Ability:-

- Questions will be ask from the **Subject/ Trade/ Branch** select by candidate. For Section Engineer Some Mathematics questions from topics Laplace Transformation, Matrices, Basic Linear Algebra will be ask.

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Trade Wise Syllabus

Civil Engineering:-

- Mechanics, Structural Analysis, Concrete Structures, Steel Structures, Soil Mechanics, Fluid Mechanics and Hydraulics, Hydrology, Bridge Construction, Water requirements, Highway Planning, Traffic Engineering, Importance of surveying, principles and classifications, mapping concepts, coordinate system, map projections, measurements of distance and directions, leveling, theodolite traversing, plane table surveying, errors and adjustments, curves, Environmental Engineering, Estimating, Costing and Valuation & Building Materials.

Mechanical Engineering:-

- Engineering Mechanics, Strength of Materials, Theory of Machines, Design for static and dynamic loading, Fluid Mechanics, Heat Transfer, Thermodynamics, Power Engineering, Steam Tables, Rankine, Brayton cycles with regeneration and reheat, I.C. Engines: air-standard Otto, Diesel cycles, Metal Casting, Machining and Machine Tool Operations, Metrology and Inspection. Questions will be ask from basics of these Subjects & beam types.

Electrical Engineering:-

- Basics of Circuits and Measurement Systems, Electric Circuits and Fields, Signals and Systems, Electrical Machines, Power Systems, Control Systems, Electrical and Electronic Measurements, Analog and Digital Electronics, Power Electronics and Drives. In Electrical Engineering Key Subject for RRB exam is Electrical Machines, Basics of circuit & Power Electronics.

Electronics Engineering:-

- Electronic Devices: Energy bands in silicon, intrinsic and extrinsic silicon. Carrier transport in silicon: diffusion current, drift current, mobility, and resistivity. Generation and recombination of carriers.p-n junction diode, Zener diode, tunnel diode, BJT, JFET, MOS, MOSFET, LED, p-I-n and avalanche photo diode, Varactor Diode, Analog Circuits, Digital Circuits, Signal & Systems , Control System & Communication Basics. For Electronics & Communications people Focus on Basic & Fundamental Electronics Concept, Signal & Systems, Wireless Communication, Antennas, Arrays, EMFT.

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Computers Engineering:-

- MS Office; Computer fundamentals & organization; C , C++ & Java language; Information systems; DBMS; System programming; Operating systems; UNIX; SAD;
- Data & Network communication; Web technology & programming; Software Engineering, Computer Networks, Databases, Algorithms.

Instrumentation & Measurement:-

- Basics of Circuits and Measurement Systems, Transducers, Mechanical Measurement and Industrial Instrumentation, Analog Electronics, Digital Electronics, Signal Systems, Measurement System, Process Control, Control Systems & Instrumentation. Focus will be more on Transducers, Measurement & Control Systems. Some questions of Signal & System will be ask in the RRB exam.

Junior Engineer (IT) :-

- MS Office; Computer fundamentals & organization; C , C++ & Java language; Information systems; DBMS; System programming; Operating systems; UNIX; SAD; Data & Network communication; Web technology & programming; Software Engineering; Environment & Pollution Control.

Junior Engineer (Printing Press):-

- Mathematics & Science including Physics, Chemistry, Environment & Pollution Control of class X standard; Printing techniques; Printing materials; Paper & Ink technology; Digital technology & Imaging; Control Application in Printing; Printing surface preparation; Offset Printing; Color science; Flexo & Gravure; Newspaper printing; Basic concepts of Computers.

Environment & Pollution Control:-

- Nature of questions is Basic Type. It will be a test of General Engineering topics of Environment, Pollution Control Methods, Type of Pollution etc.

Engineering Drawing / Graphics:-

- In Engineering Drawing Sections questions will be ask from basics of Drawing. Candidates have to focus on Fundamental of Graphics & Engineering Drawing.

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