

RRB Junior Engineer Syllabus

General Intelligence & Reasoning:

1	Questions Will Be Asked From Analogies
2	Similarities And Differences, Spatial Visualization
3	Spatial Orientation
4	Problem Solving
5	Analysis
6	Judgment
7	Decision Making
8	Visual Memory
9	Discrimination
10	Observation
11	Relationship Concepts
12	Arithmetic Reasoning
13	Verbal And Figure Classification
14	Arithmetical Number Series
15	Non-Verbal Series
16	Coding And Decoding
17	Statement Conclusion
18	Syllogistic Reasoning

Arithmetic:

1	Algebra Basic Algebra
2	Factors & Simplification
3	Polynomials
4	Arithmetic Simple & Compound Interest

5	Installments
6	Taxation
7	Shares & Dividends
8	Ratio & Proportion
9	Percentage
10	Time
11	Distance & Work
12	Profit & Loss
13	Pipes & Cisterns
14	Mensuration
15	Problem On Ages
16	Investment
17	From Data Interpretation Use Of Tables And Graphs
18	Histogram
19	Frequency Polygon
20	Bar-Diagram
21	Pie-Chart
22	Pictorial Graph

General Awareness:

1	Question Will Be Asked From Indian History
2	Indian Polity
3	Current Events
4	Geography
5	Economy
6	Focus Will Be On Current National & International Events

7	Banking
8	Sports
9	Some Questions From Finance Marketing Can Be Ask In The Exam
10	Focus Will Be On News Related To Railway
11	Rail Budget
12	New Technologies & Reform In Indian Railway

General Science:

1	Questions will be of Basic Concept of Science (Class 12th standard)
2	Questions will be ask from Daily use science
3	Physics
4	Chemistry
5	Biology
6	Zoology

Technical Ability:

1	Questions will be ask from the Subject/ Trade/ Branch select by candidate
2	For Section Engineer Some Mathematics questions from topics Laplace Transformation
3	Matrices
4	Basic Linear Algebra

Questions for Technical Ability will be from following Topics of Eligible Trades:

Civil Engineering:

1	Mechanics
2	Structural Analysis

3	Concrete Structures
4	Steel Structures
5	Soil Mechanics
6	Fluid Mechanics And Hydraulics
7	Hydrology
8	Bridge Construction
9	Water Requirements
10	Highway Planning
11	Traffic Engineering
12	Importance Of Surveying
13	Principles And Classifications
14	Mapping Concepts
15	Coordinate System
16	Map Projections
17	Measurements Of Distance And Directions
18	Leveling
19	Theodolite Traversing
20	Plane Table Surveying
21	Errors And Adjustments
22	Curves
23	Environmental Engineering
24	Estimating
25	Costing And Valuation
26	Building Materials

RRB Junior Engineer Syllabus for Mechanical Engineering:

1	Engineering Mechanics
2	Strength Of Materials
3	Theory Of Machines
4	Design For Static And Dynamic Loading
5	Fluid Mechanics
6	Heat Transfer
7	Thermodynamics
8	Power Engineering
9	Steam Tables
10	Rankine
11	Brayton Cycles With Regeneration And Reheat
12	I.C. Engines: Air-Standard Otto
13	Diesel Cycles
14	Metal Casting
15	Machining And Machine Tool Operations
16	Metrology And Inspection

RRB Junior Engineer Syllabus for Electrical Engineering:

1	Basics Of Circuits And Measurement Systems
2	Electric Circuits And Fields
3	Signals And Systems
4	Electrical Machines
5	Power Systems
6	Control Systems
7	Electrical And Electronic Measurements

8	Analog And Digital Electronics
9	Power Electronics And Drives
10	In Electrical Engineering Key Subject For RRB Exam Is Electrical Machines
11	Basics Of Circuit & Power Electronics.

RRB Junior Engineer Syllabus for Chemical Metallurgical Assistant:

- Basic concepts of Fuel
- Thermodynamics
- Applied Chemistry
- Material Science
- Instrumentation & Measurement
- Polymers
- Computers
- Environment & Pollution Control

RRB Junior Engineer Syllabus for Computers Engineering:

1	MS Office
2	Computer fundamentals & organization: C , C++ & Java language
3	Information systems: DBMS
4	System programming
5	Operating systems UNIX; SAD; Data & Network communication
6	Web technology & programming; Software Engineering
7	Computer Networks
8	Databases
9	Algorithms

RRB Junior Engineer Syllabus for Instrumentation & Measurement:

1	Basics of Circuits and Measurement Systems
2	Transducers
3	Mechanical Measurement and Industrial Instrumentation
4	Analog Electronics

5	Digital Electronics
6	Signal Systems
7	Measurement System
8	Process Control
9	Control Systems & Instrumentation
10	Focus will be more on Transducers
11	Measurement & Control Systems

Junior Engineer (IT):

1	MS Office
2	Computer fundamentals & organization
3	C , C++ & Java language
4	Information systems; DBMS; System programming
5	Operating systems; UNIX; SAD; Data & Network communication
6	Web technology & programming; Software Engineering
7	Environment & Pollution Control.

RRB Junior Engineer Syllabus for Printing Press:

1	Mathematics & Science including Physics
2	Chemistry
3	Environment & Pollution Control of class X standard
4	Printing techniques
5	Printing materials
6	Paper & Ink technology
7	Digital technology & Imaging
8	Control Application in Printing
9	Printing surface preparation

10	Offset Printing
11	Color science
12	Flexo & Gravure
13	Newspaper printing
14	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.