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RRB Technician Syllabus 2024 in English

RRB Technician Syllabus for Grade 1:

General Awareness

- Knowledge of Current affairs
- Indian Geography
- Culture and History of India Including freedom struggle
- Indian Polity and Constitution
- Indian Economy
- Environmental issues concerning India and the World
- Sports
- General scientific
- Technological developments, etc.

Computer Applications Basic

- Architecture of Computers
- Input and Output devices
- Storage devices
- Networking
- Operating System like Windows Unix, Linux
- MS Office

- Various data representation
- Internet and Email
- Websites and Web Browsers
- Computer Virus

General Intelligence and Reasoning

- Analogies
- Alphabetical and Number Series,
- Coding and Decoding
- Mathematical Operations
- Relationships
- Syllogism
- Jumbling
- Venn Diagram
- Data Interpretation and Sufficiency
- Conclusions and decision making
- Similarities and differences
- Analytical Reasoning
- Classification
- Directions,
- Statements, Arguments, Assumptions, etc.

Mathematics

- Number system
- Rational and irrational numbers
- BODMAS rule
- Quadratic Equations
- Arithmetic Progression
- Similar Triangles
- Pythagoras Theorem
- Co-ordinate Geometry
- Trigonometrical Ratios

- Heights and distances
- Surface area and Volume
- Sets: Sets and their representations, Empty sets, Finite and Infinite sets, Equal sets, Subsets
- Subsets of a set of real numbers, Universal set, Venn diagrams, Union and Intersection of sets
- Difference of sets, Complement of a set
- Properties of Complement
- Statistics: Measures of Dispersion: Range, Mean deviation, variance
- Standard deviation of ungrouped/grouped data
- Probability: Occurrence of events, exhaustive events
- Mutually exclusive events

Basic Science and Engineering

- Physics fundamentals: -Units, Measurements
- Mass, Weight, Density, Work, Power, and Energy
- Speed and velocity; Heat and Temperature
- Electricity and Magnetism: Electric Charge, Field, and Intensity, Electric Potential and Potential Difference
- Simple Electric Circuits, Conductors, Non-conductors/Insulators, Ohm's Law and its Limitations
- Resistances in Series and Parallel of a Circuit and Specific Resistance
- Relation between Electric Potential, Energy, and Power (Wattage), Ampere's Law
- Magnetic Force on Moving Charged Particle and Long Straight Conductors
- Electromagnetic Induction, Faraday's Law, and Electromagnetic Flux, Magnetic Field
- 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, LCD, LED Panel, and Transducers.

RRB Technician Syllabus for Grade 3:

General Intelligence & Reasoning

- Analogies
- Alphabetical and Number Series
- Coding and Decoding
- Mathematical operations
- Relationships
- Syllogism
- Jumbling
- Venn Diagram
- Data Interpretation and Sufficiency
- Conclusions and decision making
- Similarities and differences
- Analytical reasoning
- Classification
- Directions
- Statement – Arguments and Assumptions etc

Mathematics

- Calendar & Clock
- Decimals
- Ratio and Proportion
- Simple and Compound Interest
- Profit and Loss
- Percentages

- LCM and HCF
- Fractions
- Number system
- Square Root
- Speed Time and Distance
- BODMAS
- Pipes & Cistern
- Algebra
- Time and Work
- Elementary Statistics
- Age Calculations
- Geometry and Trigonometry
- Mensuration

Basic Science

- Work Power and Energy
- Environment Education
- Units, Measurements
- Heat and Temperature
- Speed and Velocity
- Basic Electricity
- Levers and Simple Machines
- Mass, Weight and Density
- Occupational Safety and Health

General Awareness on Current Affairs

- Science & Technology
- Sports
- Culture
- Famous Personalities
- Books and Authors

