The syllabus for RRB Technician Grade I Signal positions covers subjects such as General Awareness, General Intelligence & Reasoning, Basic Computers and Applications, Mathematics, and Basic Science and Engineering. The examination will consist of a total of 100 questions.

विषय	उपविषय
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, 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, 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 (CRO), LCD, LED Panel, Transducers
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, Statement-Assumptions
General Awareness	Current Affairs, Indian Geography, Culture and History (Including Freedom Struggle), Indian Polity and Constitution, Indian Economy, Environmental Issues (India & World), Sports, Scientific and Technological Developments

Basics of Computers and Applications	Architecture of Computers, Input and Output Devices, Storage Devices, Networking, Operating Systems (Windows, Unix, Linux), MS Office, Data Representation, Internet and Email, Websites & Web Browsers, Computer Virus
Mathematics	Number System, Rational and Irrational Numbers, BODMAS Rule, Quadratic Equations, Arithmetic Progression, Similar Triangles, Pythagoras Theorem, Coordinate Geometry, Trigonometrical Ratios, Heights and Distances, Surface Area and Volume **Sets:** Representations, Empty Sets, Finite/Infinite Sets, Equal Sets, Subsets, Universal Set, Venn Diagrams, Union/Intersection, Difference, Complement, Properties of Complement **Statistics:** Range, Mean Deviation, Variance, Standard Deviation (Grouped/ Ungrouped Data) **Probability:** Occurrence of Events, Exhaustive Events, Mutually Exclusive Events