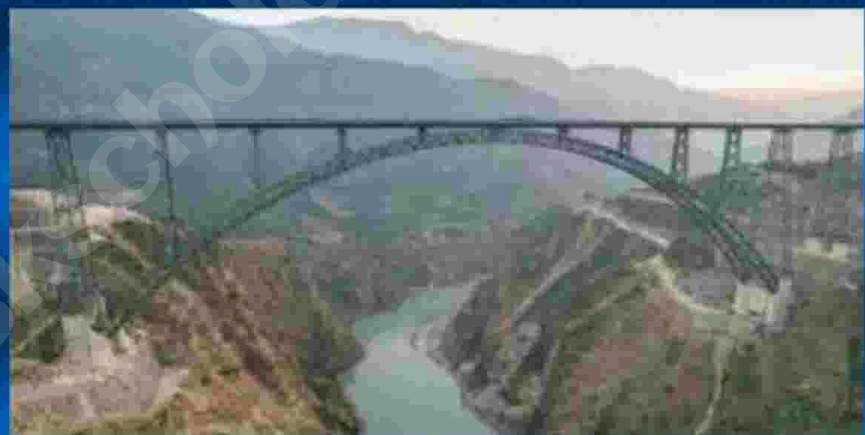




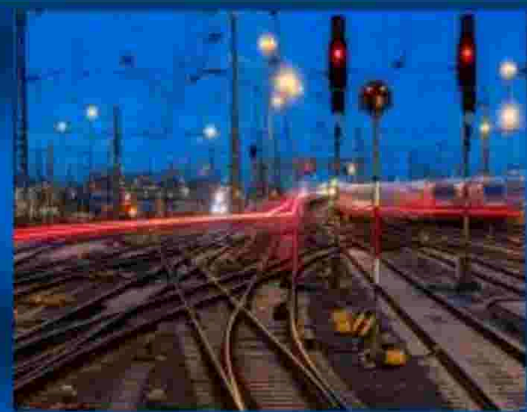
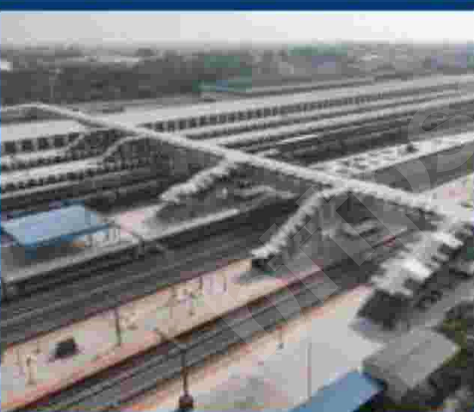
**GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
RAILWAY RECRUITMENT BOARDS**



**DETAILED CENTRALISED EMPLOYMENT NOTIFICATION  
CEN 02/2025**



**RECRUITMENT OF TECHNICIANS**



## **RRB Technician Grade I Signal & Grade III Syllabus 2025**

### **13.0. RECRUITMENT PROCESS:**

- (a) Candidates should apply only through ONLINE mode through any of the official websites of the RRBs. Candidates can apply to only one RRB for a pay level and only one common ONLINE application (in order of preference for any or all the notified posts in that pay level for which the candidate is eligible and interested to apply) should be submitted by a candidate in a pay level. The selection of RRB once exercised shall be final. Application to more than one RRB for the same pay level by a candidate will lead to rejection of all the applications for that Pay Level.
- (b) The recruitment process shall comprise of the following stages:
  - (i) Computer Based Test
  - (ii) Document Verification (DV) and
  - (iii) Medical Examination (ME)
- (c) Information on examination schedule and venues will be given to eligible candidates in due course through RRB websites, SMS and email.
- (d) Request for postponement of any of the stages or for change of venue, date and shift will not be entertained under any circumstances.

### **13.1 Computer Based Test (CBT):**

There will be a separate CBT for each pay level.

#### **(A) Pattern & Syllabus of CBT for Pay Level- 5 post i.e., Technician Gr I Signal**

- (i) Total Duration: 90 min & Total Questions: 100
- (ii) There shall be negative marking @1/3rd marks for each wrong answer.
- (iii) Normalization of marks will be done for CBT held in multiple shifts.



- (iv) Minimum percentage of marks for eligibility in various communities: UR–40%, EWS–40%, OBC (Non-Creamy Layer)-30%, SC-30% and ST-25%. This is also applicable to Ex. Servicemen category candidates, as per their community. These percentages of marks for eligibility may be relaxed by 2% marks for PwBD candidates in case of shortage of PwBD candidates against vacancies reserved for them.
- (v) **The marks scored in CBT shall be used for shortlisting of candidates for further stages of this recruitment process**
- (vi) **Syllabus for CBT of Technician Gr I Signal:** Questions will be of objective type with multiple choice answers and are likely to cover topics pertaining to the following syllabus

**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 and technological developments, etc.

**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, Statement – Arguments and Assumptions, etc.

**Basics of Computers and Applications:** 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 & Web Browsers; Computer Virus.

**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 set, 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 and 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, Transducers.

**It may be noted that the topics listed above are illustrative and not necessarily exhaustive.**

Tentative subject-wise break-up of questions and marks for CBT of Technician Gr I Signal		
Subjects	No of Questions	Marks for each Section
General Awareness	10	10
General Intelligence and Reasoning	15	15
Basics of Computers and Applications	20	20
Mathematics	20	20
Basic Science and Engineering	35	35
<b>Total</b>	<b>100</b>	<b>100</b>
The subject-wise distribution given above is merely indicative. The question papers may vary.		

**(B) Pattern & Syllabus of CBT for Pay Level 2 i.e., Technician Gr III**

- (i) Total Duration: 90 minutes & Total Questions: 100
- (ii) There shall be negative marking @1/3rd marks for each wrong answer.
- (iii) Normalization of marks will be done for CBT held in multiple shifts.

- (iv) Minimum percentage of marks for eligibility in various communities: UR–40%, EWS–40%, OBC (Non-Creamy Layer)-30%, SC-30% and ST-25%. This is also applicable to Ex. Servicemen category candidates, as per their community. These percentages of marks for eligibility may be relaxed by 2% marks for PwBD candidates in case of shortage of PwBD candidates against vacancies reserved for them.
- (v) The marks scored in CBT shall be used for shortlisting of candidates for further stages of this recruitment process.
- (vi) Syllabus for CBT for Pay Level-2 posts i.e., various Categories of Technician Gr III: Questions will be of objective type with multiple choice answers and are likely to cover topics pertaining to the following syllabus

**Mathematics:** Number system, BODMAS, Decimals, Fractions, LCM, HCF, Ratio and Proportion, Percentages, Mensuration, Time and Work; Time and Distance, Simple and Compound Interest, Profit and Loss, Algebra, Geometry and Trigonometry, Elementary Statistics, Square Root, Age Calculations, Calendar & Clock, Pipes & Cistern etc.

**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, Statement – Arguments and Assumptions etc.

**General Science:** The syllabus under this shall cover Physics, Chemistry and Life Sciences of 10th standard level.

**General Awareness:** on current affairs in science & technology, sports, culture, personalities, economics, politics and any other subject of importance.

It may be noted that the topics listed above are illustrative and not necessarily exhaustive.

Tentative subject-wise break-up of questions and marks for CBT of Technician Gr III		
Subject	No. of Questions	Marks
Mathematics	25	25
General Intelligence & Reasoning	25	25
General Science	40	40
General Awareness	10	10
Total	100	100
The subject-wise distribution given above is merely indicative. The question papers may vary.		