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Railway RRB Technician Pattern/ Syllabus 2024

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 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 pass percentage for eligibility: UR & EWS - 40%, OBC(NCL) - 30%, SC - 30%, ST - 25%. These percentages may be relaxed by 2% for PwBD candidates in case of shortage.
- (v) **The marks scored in CBT shall be counted 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.

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
Total	100	100
(i) Duration: 90 minutes (with 30 minutes extra time for PwBD candidates using scribe).		
(ii) 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 pass percentage for eligibility: UR & EWS - 40%, OBC (NCL) - 30%, SC - 30%, ST - 25%. These percentages may be relaxed by 2% for PwBD candidates in case of shortage.
- (v) **The marks scored in CBT shall be counted 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.

Tentative subject-wise break-up of questions and marks for CBT of Technician Gr III		
Subjects	No of Questions	Marks for each Section
Mathematics	25	25
General Intelligence & Reasoning	25	25
General Science	40	40
General Awareness	10	10
Total	100	100

(i) Duration: 90 minutes (with 30 minutes extra time for PwBD candidates using scribe).

(ii) The subject-wise distribution given above is merely indicative. The question papers may vary.

13.2 Document Verification (DV):

- (a) Candidates will be shortlisted for Document Verification based on their marks and merit in the CBT for the respective Pay Levels. The number of shortlisted candidates will be equal to the number of vacancies.
- (b) In case two or more candidates secure equal marks, their merit position shall be determined by age criteria i.e., the older candidate shall be given higher merit than the younger candidate.
- (c) Appointment of selected candidates is subject to their passing the requisite Medical Fitness Test to be conducted by the Railway Administration and final verification of all essential documents and verification of antecedents / character of the candidates.
- (d) Candidates may please note that RRBs only recommend names of empanelled candidates to the Railway Administrations concerned. The offer of appointment is issued only by the respective Railway Administrations.