

Railway 01/2018 Syllabus

13.1 First Stage CBT (Common for ALP/Technician)

Duration: 60 Min,

No of Questions: 75

Minimum percentage of marks for eligibility in various categories : UR -40%, OBC-30%, SC-30%, ST -25%. These percentage of marks for eligibility may be relaxed by 2% for PWD candidates in case of shortage of PWD candidates against vacancies reserved for them.

The First Stage CBT is of screening nature and the standard of questions for the CBT will be generally in conformity with the educational standards and/or minimum technical qualifications prescribed for the posts. The score of first stage exam shall be used only for short listing of candidates for second stage exam as per their merit. Candidates who are shortlisted for Second Stage CBT availing the reservation benefits of a community shall continue to be considered only against that community for all subsequent stages of recruitment process.

The Questions will be of objective type with multiple choices and are likely to include questions pertaining to:

a. 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.

b. 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.

c. General Science

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

d. General awareness on current affairs in Science & Technology, Sports, Culture, Personalities, Economics, Politics and other subjects of importance.

13.2 Second Stage CBT

Short listing of Candidates for the Second Stage CBT exam shall be based on the normalized marks obtained by them in the First Stage CBT Exam.

Total number of candidates to be shortlisted for second stage shall be 15 times the community wise total vacancy of ALP and Technician Posts notified against the RRB as per their merit in First Stage CBT. However, Railways reserve the right to increase/decrease this limit in total or for any specific trade(s) as required to ensure availability of adequate candidates for all the notified posts.

Total Duration: 2 hours and 30 Minutes (for Part A and Part B together)

The Second Stage CBT shall have two parts viz Part A and Part B as detailed below.

PART A

Duration: 90 Min,

No of Questions: 100

Minimum percentage of marks for eligibility in various categories: UR -40%, OBC-30%, SC-30%, ST -25%. These percentage of marks for eligibility may be relaxed by 2% for PWD candidates in case of shortage of PWD candidates against vacancies reserved for them.

The marks scored in Part A alone shall be used for short listing of candidates for further stages of recruitment process subject to the condition that the candidate is securing qualifying mark in Part B.

The syllabus for Part A shall be as below

a. 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.

b. 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.

c. Basic Science and Engineering

The broad topics that are covered under this shall be Engineering Drawing (Projections, Views, Drawing Instruments, Lines, Geometric figures, Symbolic Representation), Units, Measurements, Mass Weight and Density, Work Power and Energy, Speed and Velocity, Heat and Temperature, Basic Electricity, Levers and Simple Machines, Occupational Safety and Health, Environment Education, IT Literacy etc.

d. General Awareness on Current Affairs

in Science & Technology, Sports, Culture, Personalities, Economics, Politics and any other subjects of importance.

PART B

Duration: 60 Min,

No of Questions: 75

Qualifying Mark: 35 % (This is applicable to all candidates and no relaxation is permissible)

This part is qualifying in nature and shall have questions from the trade syllabus prescribed by Director General of Employment & Training (DGET). Candidates with ITI/Trade Apprenticeship qualification will be required to appear in the section having questions from the relevant trade. Candidates holding Degree, Diploma and HSC (10+2) having eligibility for the posts of ALP have to select relevant trade from the list of trades listed against their engineering discipline/HSC (10+2). The trade syllabus can be obtained from the **DGET website**. The relevant trades for various engineering discipline/HSC (10+2) for appearing in the qualifying test is as below:

SI No	Engineering Discipline(Diploma/Degree)	Relevant trade for PART B Qualifying Test to be selected from
1	Electrical Engineering and combination of various streams of Electrical Engineering	Electrician / Instrument Mechanic / Wiremen / Winder(Armature) / Refrigeration and Air Conditioning Mechanic
2	Electronics Engineering and combination of various streams of Electronics Engineering	Electronics Mechanic / Mechanic Radio & TV
3	Mechanical Engineering and combination of various streams of Mechanical Engineering	Fitter / Mechanic Motor Vehicle / Tractor Mechanic / Mechanic Diesel / Turner / Machinist / Refrigeration and Air Conditioning Mechanic/ Heat Engine / Millwright Maintenance Mechanic
4	Automobile Engineering and combination of various streams of Automobile Engineering	Mechanic Motor Vehicle / Tractor Mechanic / Mechanic Diesel / Heat Engine / Refrigeration and Air Conditioning Mechanic
5	HSC(10+2) with Physics and Maths	Electrician / Electronics Mechanic / Wireman

13.3 Computer Based Aptitude Test (Only for candidates who have opted for ALP)

Qualifying marks: The candidate needs to secure a minimum score of 42 marks in each of the test batteries to qualify. This is applicable to all candidates and no relaxation is permissible.

Candidates equal to 8 times number of ALP vacancies for each of the communities i.e. UR, OBC-NCL, SC and ST (including ExSM) shall be short listed for Computer Based AT (based on their performance in Part A of the Second Stage CBT subject to their qualifying the Part B of Second Stage CBT) from among the candidates who have opted for the post of ALP. Such shortlisted candidates should produce the Vision Certificate in the prescribed format as per Annexure - VI in original during Computer Based AT, failing which they will not be permitted to appear in the Computer Based AT.

Candidates will have to qualify in each of the test battery of Computer Based AT for considering them for the post of ALP. The Computer Based Aptitude Test shall have questions and answer options only in English and Hindi. There shall be no negative marking in Computer Based AT.

The ALP merit list will be drawn only from amongst the candidates qualifying in the Aptitude Test, with 70% weightage for the marks obtained in the Part A of Second Stage CBT and 30% weightage for the marks obtained in Computer Based AT.

Candidates are advised to visit websites of RDSO (www.rdsso.indianrailways.gov.in -> Directorates -> Psycho Technical Directorate -> Candidates Corner) for question patterns and other details of AT.

13.4 Document Verification and Empanelling of Candidates

Based on the performance of candidates in Part A of the Second Stage CBT subject to their qualifying the Part B of Second Stage CBT (For Technician posts) and based on the performance of candidates in both Part A of the Second Stage CBT and Computer Based AT subject to their qualifying the Part B of Second Stage CBT (For ALP), candidates equal to the number of vacancies will be called for Document Verification. In addition, candidates equal to 50% (may increase or decrease at the discretion of Railways) of the number of vacancy for various posts will also be called for DV. These additional candidates will, however, be considered for empanelment only if there is a shortfall in empanelment from the merit list or/and as replacement against the shortfall on account of non-joining of recommended candidates in the working post or/and any other special requirements.

In case of two or more candidates securing same marks, their merit position shall be determined by age criteria i.e., older person shall be given higher seniority.

Appointment of selected candidates is subject to their passing requisite Medical Fitness Test to be conducted by the Railway Administration, final verification of educational and community certificates and verification of antecedents/character of the candidates.

Candidates may please note that RRBs only recommend names of the empanelled candidates and appointment is offered ONLY by the respective Railway Administrations.