

**India's first
Rail and Transportation University
NATIONAL RAIL & TRANSPORTATION INSTITUTE (NRTI)
(A Deemed to be University established by Government of India in 2018)
NAIR campus, Lalbaug, Vadodara 390004 (India)**

ENTRANCE TEST

For Undergraduate Programmes (B.Sc. and BBA)

- **Mode:** Computer-based
- **Questions:** 100 Multiple Choice Questions (MCQs)
- **Number of options:** 4
- **Question Types:**
 - Proficiency in English Language (25 questions)
 - Reasoning & General Intelligence (30 questions)
 - Quantitative & Numerical Ability (25 questions)
 - General Awareness (20 questions)
- **Time:** 90 minutes duration
- **Marking:**
 - +1 for every correct answer
 - -0.25 for every incorrect answer
- **Language:** English
- **Section Tabs to be displayed** (Default value is 'Yes'): Yes
- **Question Shuffling** (Default value is 'Within Section'): Within Section
- **Option Shuffling** (Default value is 'Yes'): Yes

Syllabus

Indicative NRTI Aptitude Test Syllabus		
Section	Construct	Sub Construct
Proficiency in English Language	Error recognition	Recognising grammatical structure and usage.
	Sequencing of Ideas	A set of sentences are to be rearranged to form a meaningful paragraph
	Applied Grammar	Using prepositions, determiners, connectives, tenses appropriately.
	Contextual Usage	Using appropriate words in the given context like cloze test
	Reading Comprehension (one passage of 500 words)	Locating Information, grasping ideas, identifying relationships, interpreting ideas, moods, characteristics of characters, tone of passage, inferring, getting the central theme, evaluating
	Sectional Total	25 Questions
Reasoning & General Intelligence	Numerical reasoning	Inequalities, Alpha-Numeric series
	Verbal reasoning	Coding-decoding, Blood relation, Direction & Distances
	Critical Thinking	Decision Making (Syllogisms)
	Data analysis	Puzzle & arrangement
	Sectional Total	30 Questions

Quantitative & Numerical ability	Number System	Simplification (BODMAS, Fractions, Surds and Decimals), Number Series
	Arithmetic	Percentages, Profit & Loss, Discount, Simple & Compound Interest, Averages Ratio & Proportions, Time, Work & Distance, Mixture & allegation, Age, Mensuration- 2D & 3D Figures- Areas & Volumes
	Algebra	Basic Algebraic Identities, Equations – Linear & Quadratic sequence
	Data Interpretation	Be able to use the information given in graphs and charts (Line graph, Bar Graph, Pie chart, Table) to answer questions
	Sectional Total	25 Questions
General Awareness	Geography	Mountain, River, Soil, Population, Natural resources, etc.
	Politics	Indian Constitution, Basic laws
	General Science	Everyday Science
	Sports	Sports in India & World
	Culture & Arts	Indian Culture, Dance, Art, Music, etc.
	Current affairs	Important current activities like award, Books, Politics, etc
	Sectional Total	20 Questions

[Click Here](#), to take the UG mock test for better preparation.

For Postgraduate Programmes (M.Sc. and MBA)

- **Mode:** Computer Based
- **Questions:** 100 Multiple Choice Questions (MCQs)
- **Number of options:** 4
- **Question Types:**
 - Language Comprehension (20 questions)
 - Mathematical Skills (20 questions)
 - Data Analysis & Sufficiency (20 questions)
 - Intelligence & Critical Reasoning (20 questions)
 - Indian & Global Environment (20 questions)
- **Time:** 90 Minutes Duration
- **Marking:**
 - +1 for every correct answer
 - -0.25 for every wrong answer
- **Language:** English
- **Section Tabs to be displayed** (Default value is 'Yes'): Yes
- **Question Shuffling** (Default value is 'Within Section'): Within Section
- **Option Shuffling** (Default value is 'Yes'): Yes

Syllabus

Section	Construct	Sub Construct
Language Comprehension	Error Recognition	Recognising grammatical structure and usage.
	Sequencing of Ideas	A set of sentences are to be rearranged to form a meaningful paragraph
	Applied Grammar	Using prepositions, determiners, connectives, tenses appropriately.
	Contextual Usage	Using appropriate words in the given context like cloze test
	Reading Comprehension (500 words with 5 Questions per Passage)	Locating Information, grasping ideas, identifying relationships, interpreting ideas, moods, characteristics of characters, tone of passage, inferring , getting the central theme, evaluating
	Sectional Total	20 Questions
Intelligence and critical reasoning	Numerical Reasoning	Inequalities and Alpha-Numeric series
	Verbal reasoning	Coding-decoding, Blood relation, Direction & Distance etc.
	Critical Thinking	Decision Making (Syllogisms)
	Data Analysis	Puzzle & arrangement
	Non Verbal reasoning	Spatial Imaging and Orientation, Mirror Image, Embedded Figures, Figure Series
	Sectional Total	20 Questions
Data Analysis & Sufficiency	Histogram	Data Charts
	Frequency Polygon	Graphs – Line X-Y Graphs
	Bar diagram	Bar diagrams & Charts including Simple, Stacked, Composite Bar charts
	Pie chart	Pie charts
	Tables and Data sufficiency	Data Tables and Data Sufficiency
	Sectional Total	20 Questions
Mathematical Skills	Number System	Simplification(BODMAS, Fractions, Surds and Decimals),Number Series
	Arithmetic	Percentages, Profit & Loss, Discount, Simple & Compound Interest ,Averages Ratio & Proportions, Time, Work & Distance, Mixture & allegation, Age, Mensuration- 2 D & 3D Figures- Areas & Volumes
	Algebra	Basic Algebraic Identities, Equations - Linear & Quadratic sequence
	Basic Trigonometry	Trigonometric ratio & Identities, Height & Distance
	Data Interpretation	Be able to use the information given in graphs and charts(Line graph, Bar Graph, Pie chart, Table) to answer questions
	Sectional Total	20 Questions
India and Global Environment	Geography	Mountain, River, Soil, Population, Natural resources etc.
	Polity	Indian Constitution, Basic laws
	General Science	Everyday Science
	Sports	Sports in India & World
	Culture & Arts	Indian Culture, Dance, Art, Music etc.

Transportation	History of Transportation in India, Current scenario of Transport sector in India, emerging new means of Transportation
Current affairs	Imp current activities like award, Books , Politics etc.
Sectional Total	20 Questions

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