

Rajasthan NTSE - 2019 A Detailed Analysis by Resonance

NTSE 2019: The National Talent Search Examination (NTSE) is a national level examination cum scholarship program. The scholarship program is conducted by NCERT and the students who are studying in class X are eligible for **NTSE 2019** examination and selection procedure.

Eligibility: As per the eligibility criteria of NTSE 2019, all the students who are studying in X standard are eligible to apply for this scholarship program. A student from any state of the country can register for this examination and scholarship scheme. Whether a student is from a government or a private school, he/she is eligible.

Pattern/ Syllabus: The National Talent Search Examination is conducted for the students studying in the Class X. The examination consists of two tests:

1. Mental Ability Test (MAT)
2. Scholastic Aptitude Test (SAT)

NTSE Mental Ability Test (MAT) Syllabus

This test is given to judge the power of reasoning, to evaluate and discriminate the ability of thinking, judging and visualizing etc. A variety of questions, for example - analogies, classification, series, pattern perception, hidden figures, coding decoding, block assembly, problem solving, etc. are used for this purpose.

NTSE Scholastic Aptitude Test (SAT) Syllabus (Maths, Science & Social Science)

This Section Is Conducted To Judge That How Much Of Text-Book Knowledge You Have Gained. As India Doesn't Has Any Single Unified Board System, NCERT Has Not Prescribed Any Particular Syllabus For The State Level Examination Or For National Level Examination.

You Can Expect Questions That Are Asked At The National Level (Stage-I) According To The Standard Of Classes IX And X Level.

Question Paper: The Medium Of Test Is English And Regional Languages And It Comprised Of 200 Question. The Students Have To Select And Mark One Right Answer From The Given Options. Each Right Answer Carries One Point Each, Thus Making The Total Score Of The Candidate In A Test Is Equal To The Number Of Questions Answered Correctly.

Merit Clause: All The Students Who Achieve Requisite Scores At This Level Automatically Qualify For Scholarships That Are Handed Over By NCERT.

OVERALL MARKS DISTRIBUTION

The **NTSE 2018 Exam Pattern** Was An Objective Type Test Based On Paper-Pen Format.

Test	No. Of Questions	Maximum Marks	Time Allotted
MAT	100 Questions	100 Marks	120 minutes
SAT - Maths, Science, Social Sciences	100 Questions	100 Marks	120 minutes

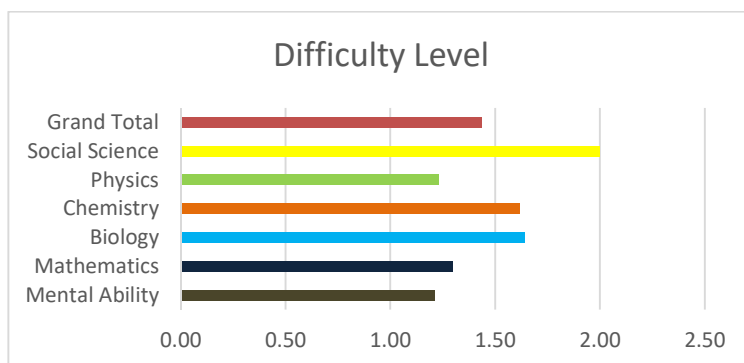
Subject	Class IX	Class X	Total
	No of Questions	No of Questions	No of Questions
Mental Ability		100	100
Mathematics	10	10	20
Biology	7	7	14
Chemistry	6	7	13
Physics	7	6	13
Social Science	19	21	40
Grand Total	49	151	200

OVERALL DIFFICULTY LEVEL ANALYSIS

In this analysis, we have rated every question on a scale of 1 to 3. The ratings are done by expert faculty of Resonance. The individual ratings are averaged to calculate overall difficulty level.

- 1: Easy
- 2: Moderate
- 3: Difficult

Subject	Difficulty Level
Mental Ability	1.21
Mathematics	1.30
Biology	1.64
Chemistry	1.62
Physics	1.23
Social Science	2.00
Grand Total	1.44



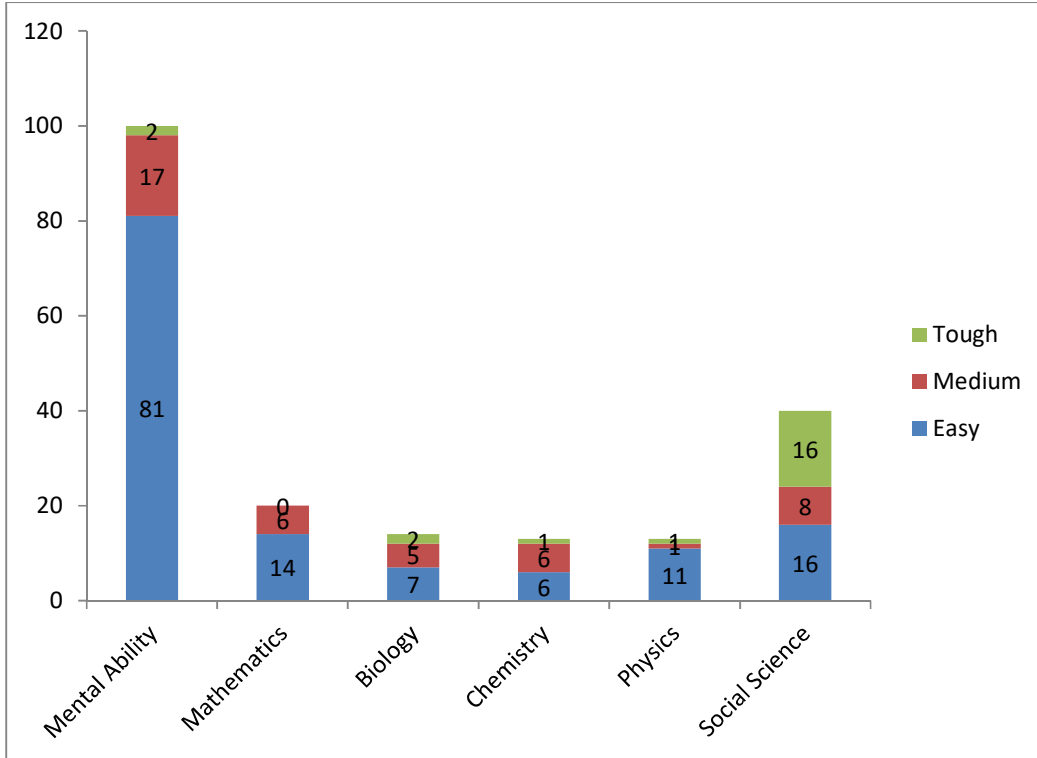
Difficulty Level Analysis: No of Questions

Subject	Easy		Medium		Difficult		Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Mental Ability	81	81	17	17	2	2	100	100
Mathematics	14	14	6	6	0	0	20	20
Biology	7	7	5	5	2	2	14	14
Chemistry	6	6	6	6	1	1	13	13
Physics	11	11	1	1	1	1	13	13
Social Science	16	16	8	8	16	16	40	40
Grand Total	135	135	43	43	22	22	200	200

Following points were observed by expert analysts of Resonance:

- Paper of Mental Ability was slightly easy than last year.
- Papers of Social Science and Bio were on the tougher side as compared to last year.
- 34 questions came from RBSE syllabus.

Question Wise Difficulty Breakup



SUBJECT WISE ANALYSIS

SCIENCE ANALYSIS

Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Biology	14	14	35.00%
Adaptation & Habitat Of Plant	1	1	2.50%
DIVERSITY(RBSE)	1	1	2.50%
Apiculture	1	1	2.50%
Improvement Of Food resources	1	1	2.50%
Asexual Reproduction	1	1	2.50%
Reproduction	1	1	2.50%
Bacterial Disease	1	1	2.50%
Why Do We Fall Ill	1	1	2.50%
Biosphere reserve	1	1	2.50%
Biodiversity & It's Conservation(RBSE)	1	1	2.50%
Blood Group	1	1	2.50%
Transportation	1	1	2.50%
Cell Organelles	1	1	2.50%
Cell	1	1	2.50%
Deficiency Disease	1	1	2.50%
Why Do We Fall Ill	1	1	2.50%
Female Reproductive System	1	1	2.50%
Reproduction	1	1	2.50%
India In space	1	1	2.50%
Search Of Life Out side The earth(RBSE)	1	1	2.50%
Medicinal Plant	1	1	2.50%
Economical Importance Of Plants And Animal(RBSE)	1	1	2.50%
Muscular Tissue	1	1	2.50%
Tissue	1	1	2.50%
Non Chordates	1	1	2.50%
Diversity	1	1	2.50%
Reproduction In Plant	1	1	2.50%
Reproduction	1	1	2.50%
Chemistry	13	13	32.50%
Application Of pH In Daily Life	1	1	2.50%
Acid Bases and Salts	1	1	2.50%
Catalyst	1	1	2.50%
Chemical Reactions and Chemical Equations(RBSE)	1	1	2.50%
Chemical Formula	1	1	2.50%
Atoms & Molecules	1	1	2.50%

Coordinate Bond	1	1	2.50%
Atoms & Molecules(RBSE)	1	1	2.50%
Isotopes	1	1	2.50%
Structure of Atom	1	1	2.50%
IUPAC Nomenclature	1	1	2.50%
Carbon and its compounds	1	1	2.50%
Mixture	1	1	2.50%
Matter	1	1	2.50%
Mole Concept	1	1	2.50%
Atoms & Molecules	1	1	2.50%
Periodic Trends	1	1	2.50%
Periodic Table and Periodicity	1	1	2.50%
pH	1	1	2.50%
Acid Bases and Salts	1	1	2.50%
Plaster Of Paris	1	1	2.50%
Acid Bases and Salts	1	1	2.50%
Polymer	1	1	2.50%
Carbon and its compounds(RBSE)	1	1	2.50%
Sublimation	1	1	2.50%
Matter	1	1	2.50%
Physics	13	13	32.50%
Combination Of Resistances	1	1	2.50%
Electricity	1	1	2.50%
D.C. Generator	1	1	2.50%
Magnetic Effect of Electric Current	1	1	2.50%
Electric Appliances	1	1	2.50%
Electricity	1	1	2.50%
Gravitational Acceleration	1	1	2.50%
Gravitation	1	1	2.50%
Gravitational Force	1	1	2.50%
Gravitation	1	1	2.50%
Human Eye	1	1	2.50%
Light	1	1	2.50%
Inertia	1	1	2.50%
Newtion's Law Of Motion	1	1	2.50%
P.E. Spring	1	1	2.50%
Work, Energy And Power	1	1	2.50%
Power Of Lens	1	1	2.50%
Light	1	1	2.50%
Relation Between V,F And I	1	1	2.50%

Sound	1	1	2.50%
Sonar	1	1	2.50%
Sound	1	1	2.50%
Symbols	1	1	2.50%
Electricity	1	1	2.50%
V-T Graph	1	1	2.50%
Motion	1	1	2.50%
Grand Total	40	40	100.00%

MATHEMATICS ANALYSIS

Mathematics			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Mathematics	20	20	100.00%
algebraic identity	1	1	5.00%
Polynomial	1	1	5.00%
Angle Made By Transversal	1	1	5.00%
Lines And angles	1	1	5.00%
angle related to triangle	1	1	5.00%
Lines And angles	1	1	5.00%
Classification of numbers	2	2	10.00%
Number System	2	2	10.00%
condition of solvability	1	1	5.00%
Simultaneous Linear Equation In Two Variable	1	1	5.00%
Cube	1	1	5.00%
Mensuratuion	1	1	5.00%
Dice Test	1	1	5.00%
Probability	1	1	5.00%
distance	1	1	5.00%
Coordinate Geomaty	1	1	5.00%
height and distance	1	1	5.00%
Height And distance	1	1	5.00%
mean	1	1	5.00%
Statistics	1	1	5.00%
nature of root	1	1	5.00%
Quadratic Equation	1	1	5.00%
nth term	1	1	5.00%
Arithmetics Progression	1	1	5.00%
Remander Theorm	1	1	5.00%
Polynomial	1	1	5.00%
rhombus	1	1	5.00%

Hérons Formula	1	1	5.00%
segment area	1	1	5.00%
Area Realted To Circle	1	1	5.00%
triangle inequality	1	1	5.00%
Congurent Triangle	1	1	5.00%
trigonometric ratio	1	1	5.00%
Trignometry	1	1	5.00%
Unit Converstion	1	1	5.00%
Mensuratuion	1	1	5.00%
Word Problem(Digit Based)	1	1	5.00%
Simultaneous Linear Equation In Two Variable	1	1	5.00%
Grand Total	20	20	100.00%

MENTAL ABILITY ANALYSIS

Mental Ability			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Mental Ability	100	100	100.00%
Analogy	3	3	3.00%
Analogy	3	3	3.00%
Arithmetical Reasoning	3	3	3.00%
Arithmetical Reasoning	3	3	3.00%
Blood Relation	4	4	4.00%
Blood Relation	4	4	4.00%
Blood Relation Based Puzzle	1	1	1.00%
Puzzle	1	1	1.00%
Calendar-Test	3	3	3.00%
Calendar-Test	3	3	3.00%
Classification	4	4	4.00%
Classification	4	4	4.00%
Cube Test	2	2	2.00%
Cube Test	2	2	2.00%
Dice Test	2	2	2.00%
Dice Test	2	2	2.00%
Direction Sense	1	1	1.00%
Direction Sense	1	1	1.00%
Embedded Figure	4	4	4.00%
Embedded Figure	4	4	4.00%
Figure Completion	2	2	2.00%
Figure Completion	2	2	2.00%

Figure Partition & counting	3	3	3.00%
Figure Partition & counting	3	3	3.00%
Inequity	1	1	1.00%
Mathematical Operational	1	1	1.00%
Letter Letter Coding	2	2	2.00%
Coding - Decoding	2	2	2.00%
Letter Number Coding	1	1	1.00%
Coding - Decoding	1	1	1.00%
Logical Sequence of words	2	2	2.00%
Logical Sequence of words	2	2	2.00%
Mirror Image	4	4	4.00%
Mirror Image	4	4	4.00%
Missing term	16	16	16.00%
Alphabet Series	8	8	8.00%
Number Series	8	8	8.00%
Non-Verbal Classification	3	3	3.00%
Non-Verbal Classification	3	3	3.00%
Non-Verbal Series	8	8	8.00%
Non-Verbal Series	8	8	8.00%
Ordering- Test	1	1	1.00%
Ranking & Ordering- Test	1	1	1.00%
Paper Folding	4	4	4.00%
Paper Cutting & Folding	4	4	4.00%
Ranking & Ordering- Test	2	2	2.00%
Ranking & Ordering- Test	2	2	2.00%
Sitting arrangement	1	1	1.00%
Sitting arrangement	1	1	1.00%
Solving By Substitution	1	1	1.00%
Mathematical Operational	1	1	1.00%
Statement & Argument	1	1	1.00%
Statement & Argument	1	1	1.00%
Statement & Conclusion	1	1	1.00%
Statement & Conclusion	1	1	1.00%
Substitution	2	2	2.00%
Mathematical Operational	2	2	2.00%
Syllogim	2	2	2.00%
Syllogim	2	2	2.00%
Venn Diagram	12	12	12.00%
Venn Diagram	12	12	12.00%
Water Image	4	4	4.00%
Water Image	4	4	4.00%
Grand Total	100	100	100.00%

SOCIAL SCIENCE ANALYSIS

Social Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Social Science	40	40	100.00%
Agriculture in Indian Economy/ Agriculture	1	1	2.50%
ECONOMICS(RBSE+CBSE)	1	1	2.50%
Ancient Civilization of the World	2	2	5.00%
History(RBSE)	2	2	5.00%
Central Government	1	1	2.50%
POLITICAL SCIENCE(RBSE)	1	1	2.50%
Central Government/ Working of the Institutions	2	2	5.00%
POLITICAL SCIENCE(RBSE+CBSE)	2	2	5.00%
Characteristics of Indian Economy	1	1	2.50%
ECONOMICS(RBSE)	1	1	2.50%
Climate	1	1	2.50%
GEOGRAPHY(CBSE)	1	1	2.50%
Constitution of India/ Working of the Institutions	1	1	2.50%
POLITICAL SCIENCE(RBSE+CBSE)	1	1	2.50%
Consumer Rights	1	1	2.50%
ECONOMICS(CBSE)	1	1	2.50%
Democracy	1	1	2.50%
POLITICAL SCIENCE(RBSE)	1	1	2.50%
Democratic rights	1	1	2.50%
POLITICAL SCIENCE(CBSE)	1	1	2.50%
Development	1	1	2.50%
ECONOMICS(CBSE)	1	1	2.50%
Economic Concepts and Planning	1	1	2.50%
ECONOMICS(RBSE)	1	1	2.50%
Economics and Economy	1	1	2.50%
ECONOMICS(RBSE)	1	1	2.50%
Foreign Relations	1	1	2.50%
POLITICAL SCIENCE(RBSE)	1	1	2.50%
Glorious Incidence of the World, Russian Revolution	1	1	2.50%
History(RBSE+CBSE)	1	1	2.50%
Glorious India	1	1	2.50%
History(RBSE)	1	1	2.50%
Human resources	1	1	2.50%

GEOGRAPHY(RBSE)	1	1	2.50%
India during period of struggle	1	1	2.50%
History(RBSE)	1	1	2.50%
Local Self Government	1	1	2.50%
POLITICAL SCIENCE(RBSE)	1	1	2.50%
Local Self Government/Federalism	1	1	2.50%
POLITICAL SCIENCE(RBSE+CBSE)	1	1	2.50%
Major Philosophies of the World	1	1	2.50%
History(RBSE)	1	1	2.50%
Manufacturing Industries	1	1	2.50%
GEOGRAPHY(RBSE)	1	1	2.50%
Mineral and Energy Resources	1	1	2.50%
GEOGRAPHY(RBSE)	1	1	2.50%
Money and Credit	1	1	2.50%
ECONOMICS(CBSE)	1	1	2.50%
Nationalism in India	2	2	5.00%
History(CBSE)	1	1	2.50%
History(RBSE)	1	1	2.50%
Natural vegetation and Soil of India	1	1	2.50%
GEOGRAPHY(RBSE)	1	1	2.50%
Physical Features of India	1	1	2.50%
GEOGRAPHY(RBSE)	1	1	2.50%
Retaliatiion and Struggle of British Empire	1	1	2.50%
History(RBSE)	1	1	2.50%
Rivers and Lakes of India/ Drainage	2	2	5.00%
GEOGRAPHY(RBSE+CBSE)	2	2	5.00%
Social Reformers and Religioius Renaissance in India	1	1	2.50%
History(RBSE)	1	1	2.50%
State Government	1	1	2.50%
POLITICAL SCIENCE(RBSE)	1	1	2.50%
The Constitution of India	1	1	2.50%
POLITICAL SCIENCE(RBSE)	1	1	2.50%
Transport and Communication	1	1	2.50%
GEOGRAPHY(RBSE)	1	1	2.50%
Water Resources	2	2	5.00%
GEOGRAPHY(RBSE)	2	2	5.00%
World History	1	1	2.50%
History(RBSE)	1	1	2.50%
Grand Total	40	40	100.00%

EXPECTED CUTOFF

Resonance Experts feel that as the Pattern Has Been Changed From previous year and Maximum Questions In Social science are From RBSE Syllabus, the cutoff is expected Between 170 to 175