

NTSE (Rajasthan) detailed analysis by Resonance Experts

NTSE 2020: 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 2020** examination and selection procedure.

Eligibility: As per the eligibility criteria of NTSE 2020, 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 (Mathematics, 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 2019 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

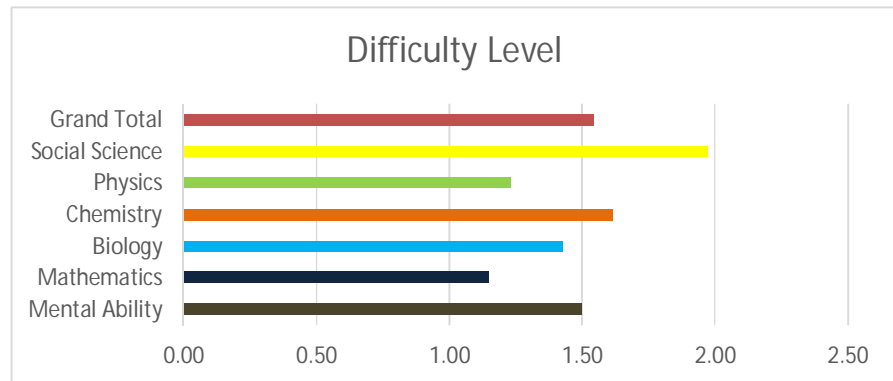
Subject	Class IX	Class X	Total
	No of Questions	No of Questions	No of Questions
Mental Ability		100	100
Mathematics	6	14	20
Biology	5	9	14
Chemistry	6	7	13
Physics	8	5	13
Social Science	14	26	40
Grand Total	39	161	200

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	1.50
Mathematics	1.15
Biology	1.43
Chemistry	1.62
Physics	1.23
Social Science	1.98
Grand Total	1.55



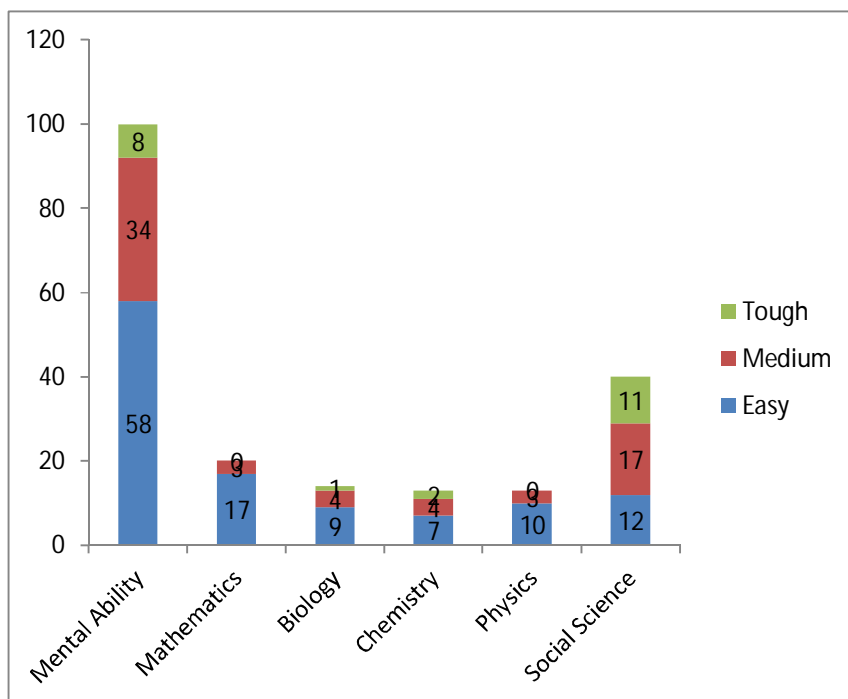
Difficulty Level Analysis: Number of Questions

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	58	58	34	34	8	8	100	100
Mathematics	17	17	3	3		0	20	20
Biology	9	9	4	4	1	1	14	14
Chemistry	7	7	4	4	2	2	13	13
Physics	10	10	3	3		0	13	13
Social Science	12	12	17	17	11	11	40	40
Grand Total	113	113	65	65	22	22	200	200

Following points were observed by expert analysts of Resonance:

- Paper of Mental Ability was slightly tough than last year.
- Paper of SAT were on easier side as compared to last year.
- 55 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%
Biodiversity	2	2	5.00%
Habitat & Adaptation	1	1	2.50%
Plant Diversity	1	1	2.50%
Biodiversity & its conservation	1	1	2.50%
Biodiversity hotspots	1	1	2.50%
Control & Coordination	1	1	2.50%
Human Brain	1	1	2.50%
Diversity of living organism	1	1	2.50%
Non Chordate	1	1	2.50%
Economic importance of Plants , Animal	1	1	2.50%
Medicinal Plants	1	1	2.50%

Food & Human Health	2	2	5.00%
Protein Malnutrition	1	1	2.50%
Vitamin Malnutrition	1	1	2.50%
Heredity & Evolution	1	1	2.50%
Mendel's Contribution	1	1	2.50%
How do organism reproduce	1	1	2.50%
Female Reproductive System	1	1	2.50%
How do we fall ill	1	1	2.50%
Communicable Disease	1	1	2.50%
Improvement in Food resources	1	1	2.50%
Nutrient Management	1	1	2.50%
Management of natural Resources	1	1	2.50%
Chipko Movement	1	1	2.50%
Nutrition	1	1	2.50%
Human Digestive system	1	1	2.50%
Chemistry	13	13	32.50%
Application of Isotopes	1	1	2.50%
Atomic Structure	1	1	2.50%
Atomicity	1	1	2.50%
Atoms & Molecule	1	1	2.50%
Bonding	1	1	2.50%
Atoms & Molecule(RBSE)	1	1	2.50%
Bronsted & Lowry Theory	1	1	2.50%
Acid, Base & Salt(RBSE)	1	1	2.50%
Catalyst	1	1	2.50%
Chemical Reactions and Chemical Equations (RBSE)	1	1	2.50%
Commercially Important Compound	1	1	2.50%
Acid, Base & Salt	1	1	2.50%
Elements	1	1	2.50%
Atoms & Molecule	1	1	2.50%
Mole concept	1	1	2.50%
Atoms & Molecule	1	1	2.50%
Nomenclature of Freone	1	1	2.50%
Carbon and its compounds(RBSE)	1	1	2.50%
Oxidation Reaction	1	1	2.50%
Chemical Reactions and Chemical Equations	1	1	2.50%
Periodic Trends	1	1	2.50%
Periodic Table	1	1	2.50%
Polymer	1	1	2.50%
Carbon and its compounds(RBSE)	1	1	2.50%
Valance	1	1	2.50%
Atoms & Molecule	1	1	2.50%

Physics	13	13	32.50%
Classification of Wave	1	1	2.50%
Wave motion & Sound	1	1	2.50%
Equation of motion	1	1	2.50%
Motion	1	1	2.50%
Gravitational Potential energy	1	1	2.50%
Work, Energy And Power	1	1	2.50%
Law of Gravitation	1	1	2.50%
Gravitation	1	1	2.50%
Magnetic Flux	1	1	2.50%
Magnetic Effect of Electric Current	1	1	2.50%
Ohm's Law	1	1	2.50%
Electricity	1	1	2.50%
PE of Spring	1	1	2.50%
Work, Energy And Power	1	1	2.50%
Electric Power	1	1	2.50%
Electricity	1	1	2.50%
Power of lens	1	1	2.50%
Light	1	1	2.50%
Refraction	1	1	2.50%
Light	1	1	2.50%
Relation Between v, n, λ	1	1	2.50%
Wave motion & Sound	1	1	2.50%
Universal Law of Gravitation	1	1	2.50%
Gravitation	1	1	2.50%
Work	1	1	2.50%
Work, Energy And Power	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%
A .P.	1	1	5.00%
n th Term of A.P.	1	1	5.00%
Angle Related To Polygon(RBSE)	1	1	5.00%
Angle Related To Polygon(RBSE)	1	1	5.00%
Area Related To Circles	1	1	5.00%
Mix Problem	1	1	5.00%
Circles	1	1	5.00%
Angle Related To Circles	1	1	5.00%

Coordinate Geometry	1	1	5.00%
Distance Formula	1	1	5.00%
Height And Distance	1	1	5.00%
Height And Distance	1	1	5.00%
Hérons Formula	1	1	5.00%
Area Of Triangle	1	1	5.00%
Linear Equation In Two Variable	1	1	5.00%
Equation Formation	1	1	5.00%
Lines And Angles	2	2	10.00%
Angle Related To Triangle	1	1	5.00%
Linear Pair	1	1	5.00%
Locus (RBSE)	1	1	5.00%
Locus(RBSE)	1	1	5.00%
Measurement of Angle(RBSE)	1	1	5.00%
Measurement of Angle	1	1	5.00%
Probability	1	1	5.00%
Probability	1	1	5.00%
Quadratic Equation	1	1	5.00%
Quadratic Formula	1	1	5.00%
Real Number	1	1	5.00%
Fundamental Theorem Of Arithmetic	1	1	5.00%
Similar Triangle	1	1	5.00%
Area Theorem	1	1	5.00%
Statistics	1	1	5.00%
Mean	1	1	5.00%
Surface Area & Volume	1	1	5.00%
Cuboid	1	1	5.00%
Trigonometry	2	2	10.00%
Trigonometric Angle	1	1	5.00%
Trigonometric Ratio	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%
Alphabet Series	8	8	8.00%
Alphabet Series	8	8	8.00%
Analogy	8	8	8.00%
Number Analogy	5	5	5.00%
Word Analogy	3	3	3.00%
Arithmetical Reasoning	14	14	14.00%
Arithmetical Reasoning	13	13	13.00%
Cube Test	1	1	1.00%
Blood Relation	4	4	4.00%
Coded Relation	4	4	4.00%
Calendar-Test	1	1	1.00%
Calendar-Test	1	1	1.00%
Classification	6	6	6.00%
Number Classification	1	1	1.00%
Word Classification	5	5	5.00%
Clock Test	1	1	1.00%
Clock Test	1	1	1.00%
Coding - Decoding	4	4	4.00%
Letter Number Coding	3	3	3.00%
Letter Symbol Coding	1	1	1.00%
Cube Test	1	1	1.00%
Cube Test	1	1	1.00%
Data Interpretation	5	5	5.00%
Pie Chart	5	5	5.00%
Dice Test	1	1	1.00%
Dice Test	1	1	1.00%
Figure Completion	1	1	1.00%
Figure Completion	1	1	1.00%
Figure Partition & counting	3	3	3.00%
Figure Partition & counting	3	3	3.00%
Logical Sequence of words	2	2	2.00%
Logical Sequence of words	2	2	2.00%
Mathematical Operational	11	11	11.00%
Mathematical Operational	11	11	11.00%
Mirror Image	4	4	4.00%
Mirror Image	4	4	4.00%

Missing Term In figure	1	1	1.00%
Missing Term In figure	1	1	1.00%
Number Series	8	8	8.00%
Number Series	8	8	8.00%
Sitting arrangement	5	5	5.00%
Circular Sitting Arrangement	5	5	5.00%
Statement & Conclusion	1	1	1.00%
Statement & Conclusion	1	1	1.00%
Syllogim	2	2	2.00%
Syllogim	2	2	2.00%
Venn Diagram	9	9	9.00%
Venn Diagram	9	9	9.00%
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%
ECONOMICS(RBSE)	7	7	17.50%
Agriculture In Indian Economy	1	1	2.50%
Challenges Before Indian Economy	1	1	2.50%
Characteristics And New Trends In Indian Economy	2	2	5.00%
Consumer And Legal Awareness And Right To Information	1	1	2.50%
Economics And Economy	1	1	2.50%
Money And Financial Institutions	1	1	2.50%
GEOGRAPHY(RBSE)	11	11	27.50%
Agriculture And India	1	1	2.50%
Climate Of India	1	1	2.50%
Human Resources	1	1	2.50%
Manufacturing Industries	1	1	2.50%
Mineral And Energy Resources	2	2	5.00%
Natural Vegetation And Soils Of India	1	1	2.50%
Physiography Of India	1	1	2.50%
Rivers And Lakes Of India	1	1	2.50%
Transport And Communication	1	1	2.50%
Water Resources	1	1	2.50%
HISTORY(RBSE)	11	11	27.50%
Ancient Civilization Of The World	1	1	2.50%

Glorious India	3	3	7.50%
History Of The World	2	2	5.00%
India During The Period Of Struggle	2	2	5.00%
Pride Of Rajasthan	1	1	2.50%
Retaliation And Struggle Of British Period	1	1	2.50%
Social Reformers And Religious Renaissance	1	1	2.50%
POLITICAL SCIENCE(RBSE)	11	11	27.50%
Central Government	2	2	5.00%
Constitution Of India	3	3	7.50%
Democracy	1	1	2.50%
Foreign Relations	1	1	2.50%
Local Self Government	1	1	2.50%
State Government	3	3	7.50%
Grand Total	40	40	100.00%

EXPECTED CUTOFF

Resonance Experts feel that paper was good and error less, Paper of Mental Ability was slightly tough than last year. All Questions in Social science are From RBSE Syllabus, the cutoff is expected Between 172 to 176