

NTSE Stage 2 detailed analysis by Resonance Experts

NTSE 2019: The National Talent Search Examination (NTSE) is a national level examination cum scholarship programme. The scholarship programme is conducted by NCERT and students studying in class X are eligible for **NTSE 2019** examination and selection procedure. NTSE stage 1 was conducted in month of November/December across the nation. NTSE Stage 2 was conducted on June 16, 2019.

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

Pattern/ Syllabus: The National Talent Search Examination is conducted for students studying at the Class X level. 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 to judge the power of reasoning, ability to think, ability to judge, evaluate or discriminate, ability to visualize in the space, spatial orientation, 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 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-II) to be 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 four given options. Each right answer carry one point each, thus making the total score of the candidate in a test equal to the number of questions answered correctly. However, at the second stage No Negative marking.

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 Stage 2, 2019 Exam Pattern** is an objective type test based on paper-pencil 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 WISE MARKS DISTRIBUTION

Subject	Class IX	Class X	Class XI	Class XII	Total
	No of Questions				
Physics	7	3	1	2	13
Chemistry	3	11			14
Mathematics	5	15			20
Biology	6	6	1		13
Social science	24	16			40
Mental Ability		100			100
Grand Total	45	151	2	2	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 then averaged to calculate overall difficulty level.

- Easy
- Medium
- Difficult

DIFFICULTY LEVEL ANALYSIS: NO OF QUESTIONS

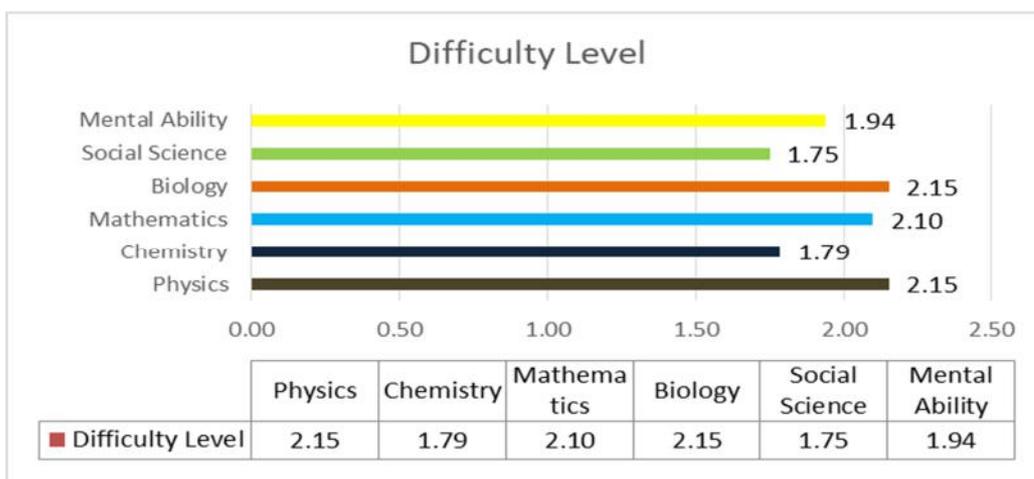
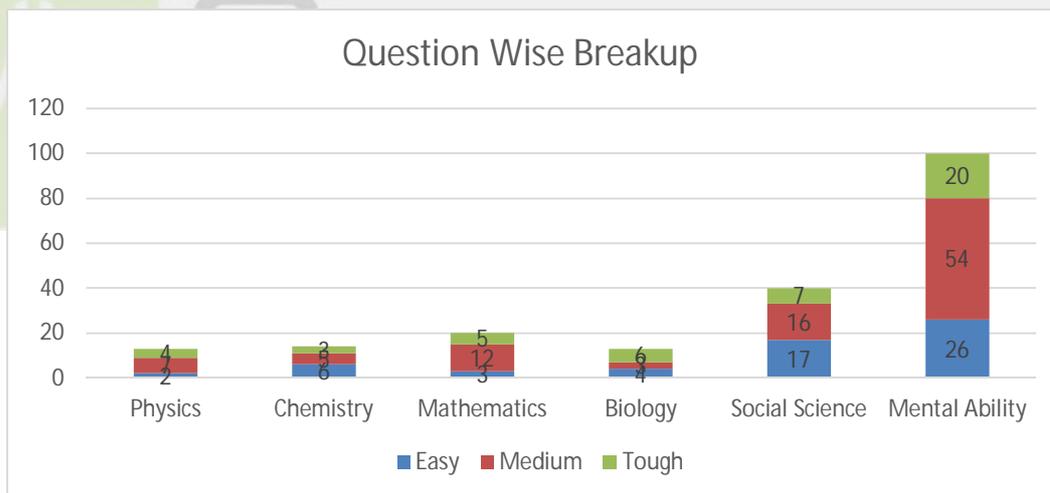
Subject	Difficulty Level	Subject	Easy	Medium	Tough	Grand Total
Physics	2.15	Physics	2	7	4	13
Chemistry	1.79	Chemistry	6	5	3	14
Mathematics	2.10	Mathematics	3	12	5	20
Biology	2.15	Biology	4	3	6	13
Social Science	1.75	Social Science	17	16	7	40
Mental Ability	1.94	Mental Ability	26	54	20	100
Total	1.94	Grand Total	58	97	45	200

Resonance Experts made the following observations in NTSE Stage 2 Paper:

- **Mental Ability:** Paper was lengthier from last year and that is why it is considered more difficult than last year. Two question were ambiguous
- **Physics and Biology:** Both these subjects had lengthier and confusing questions which made both of them relatively difficult from last year.
- **Chemistry:** The paper was relatively easy than last year as questions were fairly straight forward.
- **Mathematics:** The questions in mathematics were a bit difficult than last year.
- **Social Science:** Difficulty Level of the Paper was easy as compare to last year and one question came out of syllabus.

Overall, it was felt that the paper was on the tougher side from last year and thus cutoff is expected to decrease.

QUESTION WISE DIFFICULTY BREAKUP



SUBJECT WISE AND TOPIC WISE ANALYSIS

MENTAL ABILITY ANALYSIS

Mental Ability			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Alphabet Series	1	1	1.00%
Alphabet Series	1	1	1.00%
Analogy	2	2	2.00%
Analogy	2	2	2.00%
Arithmetical Reasoning	8	8	8.00%
Arithmetical Reasoning	8	8	8.00%
Arithmetical Reasoning	3	3	3.00%
Arithmetical Reasoning	3	3	3.00%
Blood Relation	1	1	1.00%
Blood Relation	1	1	1.00%
Calendar	2	2	2.00%
Calendar	2	2	2.00%
Clock Test	3	3	3.00%
Clock Test	3	3	3.00%
Coding Decoding	9	9	9.00%
Coding Decoding	9	9	9.00%
Cube Test	1	1	1.00%
Cube Test	1	1	1.00%
Data Sufficiency	1	1	1.00%
Data Sufficiency	1	1	1.00%
Dice Test	3	3	3.00%
Dice Test	3	3	3.00%
Direction Test	5	5	5.00%
Direction Test	5	5	5.00%
Figure Completion & Formation	4	4	4.00%
Figure Completion & Formation	4	4	4.00%
Figure Counting	1	1	1.00%
Figure Counting	1	1	1.00%
Figure Embedded	1	1	1.00%
Figure Embedded	1	1	1.00%
Figure Formation	3	3	3.00%
Figure Formation	3	3	3.00%
Figure Partition	1	1	1.00%
Figure Partition	1	1	1.00%
Logical Deduction	1	1	1.00%
Logical Deduction	1	1	1.00%
Mathematical Operation	7	7	7.00%
Mathematical Operation	7	7	7.00%

Mirror Image	2	2	2.00%
Mirror Image	2	2	2.00%
Missing Term In Figure	9	9	9.00%
Missing Term In Figure	9	9	9.00%
Non Verbal Classification	1	1	1.00%
Non Verbal Classification	1	1	1.00%
Non Verbal Series	1	1	1.00%
Non Verbal Series	1	1	1.00%
Number Series	6	6	6.00%
Number Series	6	6	6.00%
Puzzle Test	6	6	6.00%
Puzzle Test	6	6	6.00%
Ranking & Order Test	5	5	5.00%
Alphabet Quibble	1	1	1.00%
Ordering	1	1	1.00%
Ranking & Order Test	3	3	3.00%
Sylogism	5	5	5.00%
Sylogism	5	5	5.00%
Venn Diagram	7	7	7.00%
Venn Diagram	7	7	7.00%
Water Image	1	1	1.00%
Water Image	1	1	1.00%
Grand Total	100	100	100.00%

BIOLOGY ANALYSIS

Biology			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Biomolecules	1	1	7.69%
Enzymes	1	1	7.69%
Cell Division	1	1	7.69%
Meiosis	1	1	7.69%
Control & Coordination	2	2	15.38%
Endocrine Glands	1	1	7.69%
Nervous system	1	1	7.69%
Disease	1	1	7.69%
Protozoan Disease	1	1	7.69%
Diversity	1	1	7.69%
Animal Diversity	1	1	7.69%
Fundamental Unit of life-cell	1	1	7.69%
Membrane Transportation	1	1	7.69%
Hereadity & Evolution	1	1	7.69%
Monohybrid Cross	1	1	7.69%

Nutrition	1	1	7.69%
Animal Nutrition	1	1	7.69%
Our Environment	1	1	7.69%
Air Pollution	1	1	7.69%
Reproduction	1	1	7.69%
Reproduction in Flowering Plants	1	1	7.69%
Respiration	1	1	7.69%
Anaerobic Respiration	1	1	7.69%
Tissue	1	1	7.69%
Plant Tissue	1	1	7.69%
Grand Total	13	13	100.00%

CHEMISTRY ANALYSIS

Chemistry			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Acid Base & Salts	1	1	7.14%
Indicator	1	1	7.14%
Atoms & Molecules	1	1	7.14%
Mole Concept	1	1	7.14%
Carbon And Its Compounds	2	2	14.29%
Chemical Properties Of Alcohol	1	1	7.14%
Chemical Properties Of Alcohol & Carboxylic Acid	1	1	7.14%
Chemical Reaction & Equation	3	3	21.43%
Displacement Reaction	1	1	7.14%
Reactivity Series	1	1	7.14%
Types Of Reaction	1	1	7.14%
Is Matter Around Us Pure	2	2	14.29%
Separation Technique	1	1	7.14%
Types Of Colloids	1	1	7.14%
Metals & Non Metals	1	1	7.14%
Chemical Properties Of Metal	1	1	7.14%
Periodic Classification Of Elements	4	4	28.57%
Nature & Type Of Bonding	1	1	7.14%
Order Of Size Of Isoelectronic Series	1	1	7.14%
Periodic Trends	2	2	14.29%
Grand Total	14	14	100.00%

PHYSICS ANALYSIS

Physics			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Electricity	2	2	15.38%
Combination of resistance	1	1	7.69%
Electric Energy	1	1	7.69%
Force	1	1	7.69%
Impulse	1	1	7.69%
Gravitation	1	1	7.69%
Gravitational Potential	1	1	7.69%
Light	2	2	15.38%
Combination of Lens	1	1	7.69%
Magnification of Lens	1	1	7.69%
Magnetic Effect of Current	1	1	7.69%
Magnetic Field Due To Current Carrying Circular Loop	1	1	7.69%
Motion	3	3	23.08%
a-t Graph	2	2	15.38%
Motion Under Gravity	1	1	7.69%
Sound	1	1	7.69%
Relation Between Velocity, Wavelength & Frequency	1	1	7.69%
WEP	1	1	7.69%
Conservation of ME	1	1	7.69%
WPE	1	1	7.69%
KE	1	1	7.69%
Grand Total	13	13	100.00%

MATHEMATICS ANALYSIS

Mathematics			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Area of plane figures	1	1	5.00%
Area of plane figures	1	1	5.00%
Circles	3	3	15.00%
tangent and its properties	3	3	15.00%
Coordinate geometry	1	1	5.00%
Distance formula	1	1	5.00%
linear equation in two variable	1	1	5.00%
word problem	1	1	5.00%
Mensuration	3	3	15.00%
combination of solid figures	3	3	15.00%

Polynomial	4	4	20.00%
division algorithm	1	1	5.00%
factorization	2	2	10.00%
relation between zeros and coefficients	1	1	5.00%
Polynomials	1	1	5.00%
division algorithm	1	1	5.00%
Probability	1	1	5.00%
Dice based problem	1	1	5.00%
Quadratic equation	1	1	5.00%
relation between zeros and coefficients	1	1	5.00%
Similar triangle	2	2	10.00%
criteria of similar triangle	1	1	5.00%
Pythagoras theorem	1	1	5.00%
Statistics	1	1	5.00%
Mean	1	1	5.00%
trigonometry	1	1	5.00%
trigonometry ratios	1	1	5.00%
Grand Total	20	20	100.00%

SOCIAL SCIENCE ANALYSIS

Social Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Economics	7	7	17.50%
Food Security	1	1	2.50%
Globalisation and Indian economy	1	1	2.50%
Money And Credit	2	2	5.00%
People as Resource	1	1	2.50%
Poverty As a Challenge	1	1	2.50%
Sectors of indian Economy	1	1	2.50%
Geography	12	12	30.00%
Agriculture	2	2	5.00%
Climate	2	2	5.00%
Drainage	1	1	2.50%
Miscellaneous	2	2	5.00%
Natural Vegetation and Wildlife	1	1	2.50%
Physical Features of India	2	2	5.00%
Population	2	2	5.00%
History	12	12	30.00%
Forest Society and Colonialism	1	1	2.50%
French Revolution	1	1	2.50%

Making of a Global World	3	3	7.50%
Nationalism in India	1	1	2.50%
Peasants and Farmers	1	1	2.50%
Print Culture	1	1	2.50%
Russian Revolution	1	1	2.50%
The Nationalist Movement in Indo-China	1	1	2.50%
The Story of the Cricket	1	1	2.50%
Work Life & Leisure	1	1	2.50%
Political Science	9	9	22.50%
Constitutional Design	2	2	5.00%
Democratic Rights	1	1	2.50%
Electoral Politics	1	1	2.50%
Political Parties	2	2	5.00%
Working of the Institutions	3	3	7.50%
Grand Total	40	40	100.00%

EXPECTED CUTOFF

As first paper (MAT) was difficult, and the number of selection would be doubled as compared to last year. Cut off is expected to be 20 marks lesser than last year. Hence cut off for General category student is expected to be 130 marks (+/-3 marks) while for SC/ST it is expected to be 80 marks (+/-3 marks).