

Rajasthan NTSE - 2016

A Detailed Analysis by Resonance

NTSE 2016: The National Talent Search Examination (NTSE) is a national level examination cum scholarship program. The scholarship programme is conducted by NCERT and students studying in class X are eligible for **NTSE 2016** examination and selection procedure. NTSE stage-I was conducted on November 6, 2016 and November 13, 2016 in different regions of India.

Eligibility: As per the eligibility criteria of NTSE 2016 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. 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 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 given to judge 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 (Language Test)

Language Test is designed to judge the power of reading comprehension, logical sequencing; interpretative, evaluative, predictive and creative components of language. The test is conducted for English and Regional Languages.

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 1/3 mark is deducted for every wrong answer.

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 2016 Exam Pattern** was an objective type test based on paper-pen format.

Test	No. Of Questions	Maximum Marks	Time Allotted
MAT	50 Questions	50 Marks	45 minutes
SAT - Language Test	50 Questions	50 Marks	45 minutes
SAT - Maths, Science, Social Sciences	100 Questions	100 Marks	90 minutes

Subject	Class 9		Class 10		Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Biology	7	7	7	7	14	14
Chemistry	6	6	7	7	13	13
English			50	50	50	50
Mathematics	8	8	12	12	20	20
Mental Ability	1	1	49	49	50	50
Physics	6	6	7	7	13	13
Social Science	24	24	16	16	40	40
Grand Total	52	52	148	148	200	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.

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

Subject	Difficulty Level
English	1.48
Mathematics	1.65
Mental Ability	1.26
Science	1.45
Social Science	1.50
Total	1.44



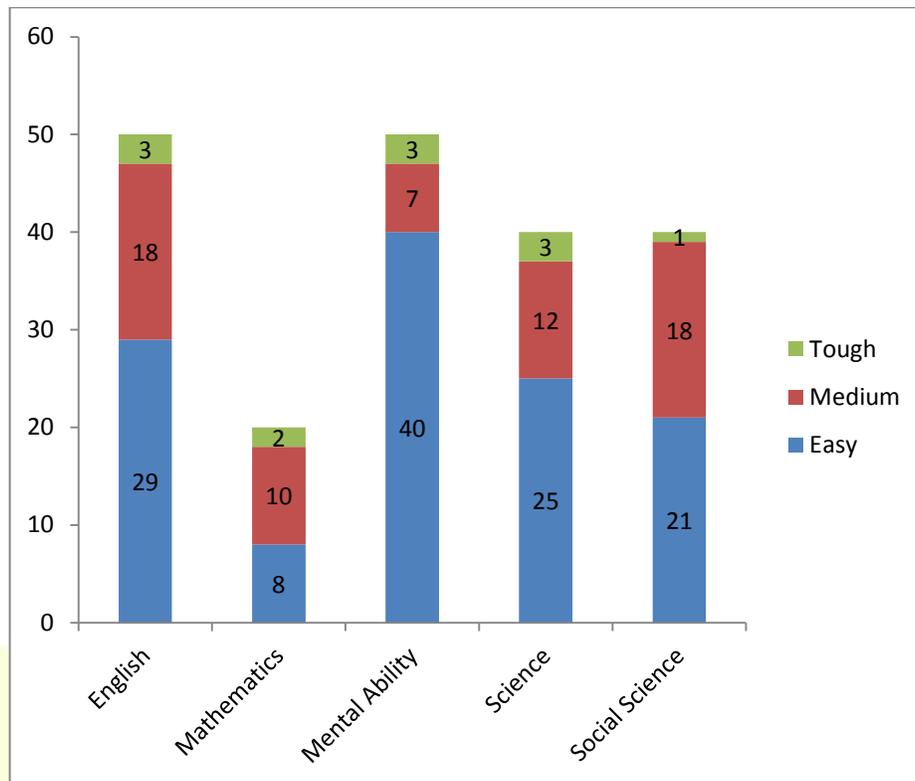
Difficulty Level Analysis: No of Questions

Subject	Easy Level		Medium Level		Difficult Level	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Biology	9	9	5	5		
Chemistry	5	5	5	5	3	3
English	29	29	18	18	3	3
Mathematics	8	8	10	10	2	2
Mental Ability	40	40	7	7	3	3
Physics	11	11	2	2		
Social Science	21	21	18	18	1	1
Grand Total	123	123	65	65	12	12

Resonance Experts feel that all subjects were of similar difficulty level. While around 123 Marks can be considered easy overall, 65 marks are moderately difficulty and 12 marks are considered difficult by Resonance Team.

Overall, it is felt by Resonance Faculty Team that paper was on easier side compared to last year and the cut-off is expected to be higher than that of last year.

Question Wise Difficulty Breakup



SUBJECT WISE ANALYSIS

SCIENCE ANALYSIS

Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Science	40	40	100.00%
Biology	14	14	35.00%
Cell	2	2	5.00%
Control and Coordination	2	2	5.00%
Diversity	3	3	7.50%
Natural Resources and Management	1	1	2.50%
Origin and Evolution	1	1	2.50%
Our Environment	1	1	2.50%
Reproduction	1	1	2.50%
Tissue	2	2	5.00%
Transportation	1	1	2.50%
Chemistry	13	13	32.50%
Acid Bases and Salts	1	1	2.50%
Atoms & Molecules	1	1	2.50%
Carbon and its compounds	2	2	5.00%
Matter	3	3	7.50%
Metal and Non Metals	3	3	7.50%
Periodic Table and Periodicity	1	1	2.50%
Structure of Atom	2	2	5.00%
Physics	13	13	32.50%
Electricity	2	2	5.00%
Fluid	1	1	2.50%
Force and Laws of Motion	1	1	2.50%
Gravitation	1	1	2.50%
Light	3	3	7.50%
Magnetic effect of current and EMI	1	1	2.50%
Motion	1	1	2.50%
Nuclear Physics	1	1	2.50%
Wave motion and sound	1	1	2.50%
Work, Power and Energy	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%
Area of Parallelogram and Triangle	1	1	5.00%
Problem related to median of Triangle	1	1	5.00%
Area of plane figures	1	1	5.00%
Area related to circles	1	1	5.00%
Arithmetic Progression	1	1	5.00%
Sum of nth term	1	1	5.00%
Circles	2	2	10.00%
Angle related properties of Circle	1	1	5.00%
Secant and tangent	1	1	5.00%
Linear equation in two variables	1	1	5.00%
Method of finding solution	1	1	5.00%
Number System	1	1	5.00%
Rational numbers	1	1	5.00%
Polynomial	3	3	15.00%
Algebraic identities	2	2	10.00%
Factor theorem and remainder theorem	1	1	5.00%
Probability	1	1	5.00%
Theoretical probability	1	1	5.00%
Quadratic equations	1	1	5.00%
nature of roots	1	1	5.00%
Quadrilaterals	1	1	5.00%
Classification and properties of various types of parallelogram	1	1	5.00%
Statistics	1	1	5.00%
Mixed Problem 1	1	1	5.00%
Surface area and volume	1	1	5.00%
Conversion of solids	1	1	5.00%
Triangles	2	2	10.00%
Pythagoras theorem	1	1	5.00%
Similarity of triangle	1	1	5.00%
Trigonometry	3	3	15.00%
Complementary angle	1	1	5.00%
Heights and distances	1	1	5.00%
Trigonometric identities	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	50	50	100.00%
Non Verbal Reasoning	24	24	48.00%
Cube Test	2	2	4.00%
Dice Test	3	3	6.00%
Embedded Figure	2	2	4.00%
Figure Partition & counting	2	2	4.00%
Mirror Image	2	2	4.00%
Non-Verbal Classification	4	4	8.00%
Non-Verbal Series	4	4	8.00%
Paper Cutting & Folding	2	2	4.00%
Water Image	2	2	4.00%
Verbal Reasoning	26	26	52.00%
Alphabet Series	4	4	8.00%
Blood Relation	1	1	2.00%
Classification	4	4	8.00%
Coding-Decoding	4	4	8.00%
Direction Sense	1	1	2.00%
Number Series	4	4	8.00%
Ranking & Ordering-Test	2	2	4.00%
Syllogism	3	3	6.00%
Venn Diagram	4	4	8.00%
Grand Total	50	50	100.00%

ENGLISH ANALYSIS

English			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
English	50	50	100.00%
Comprehension	5	5	10.00%
Reading Comprehension	5	5	10.00%

Degree of Comparison	1	1	2.00%
Transformation of Sentences	1	1	2.00%
Grammar	5	5	10.00%
Phrasal verbs	2	2	4.00%
Synonyms ,antonyms	3	3	6.00%
Grammar and Collocation	31	31	62.00%
Fillers	31	31	62.00%
Poem	2	2	4.00%
Literature	2	2	4.00%
Verbal Ability	1	1	2.00%
Correct Spelling	1	1	2.00%
Verbal Reasoning	2	2	4.00%
Rearrangement of words	2	2	4.00%
Vocabulary	3	3	6.00%
idioms and phrases	2	2	4.00%
one word substitution	1	1	2.00%
Grand Total	50	50	100.00%

SOCIAL SCIENCE ANALYSIS

Social Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Social Science	40	40	100.00%
Economics	7	7	17.50%
Development	1	1	2.50%
Food Security	1	1	2.50%
Globalisation and the Indian Economy	1	1	2.50%
People and Resource	1	1	2.50%
Poverty as a challenge	1	1	2.50%
Sectors of the Indian Economy	1	1	2.50%
The story of village Palampur	1	1	2.50%
Geography	11	11	27.50%
Agriculture	1	1	2.50%
Climate	1	1	2.50%
Drainage	2	2	5.00%
Forest and Wild life	1	1	2.50%
India - Size and Location	1	1	2.50%
Lifeline of National Economy	1	1	2.50%
Mineral and Energy Resources	1	1	2.50%
Natural Vegetation & Wildlife	1	1	2.50%
Population	1	1	2.50%
Resource and Development	1	1	2.50%
History	11	11	27.50%
Cricket : A History of Sports	1	1	2.50%
Forest Society & Colonialism	1	1	2.50%
French revolution	2	2	5.00%
Mixed	2	2	5.00%
Nationalism in India	2	2	5.00%
Novels, Society & History	2	2	5.00%
Pastorlist in the modern world	1	1	2.50%
Political Science	11	11	27.50%
Constitutional Design	2	2	5.00%
Democracy and Diversity	1	1	2.50%
Democracy in the cotemporary world	1	1	2.50%
Democratic Rights	1	1	2.50%
Electoral Politics	1	1	2.50%
Out comes of Democracy	1	1	2.50%
Political Parties	1	1	2.50%

Popular struggles & movements	1	1	2.50%
Power sharing	1	1	2.50%
Working Of the institution	1	1	2.50%
Grand Total	40	40	100.00%

EXPECTED CUTOFF

Resonance Experts feel that while the overall paper was difficult from previous year, due to relative ease in solving mental ability questions, the cutoff is expected to increase from last year. As per Resonance Experts, cutoff should increase to **136 from 135** last year.