

Maharashtra 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

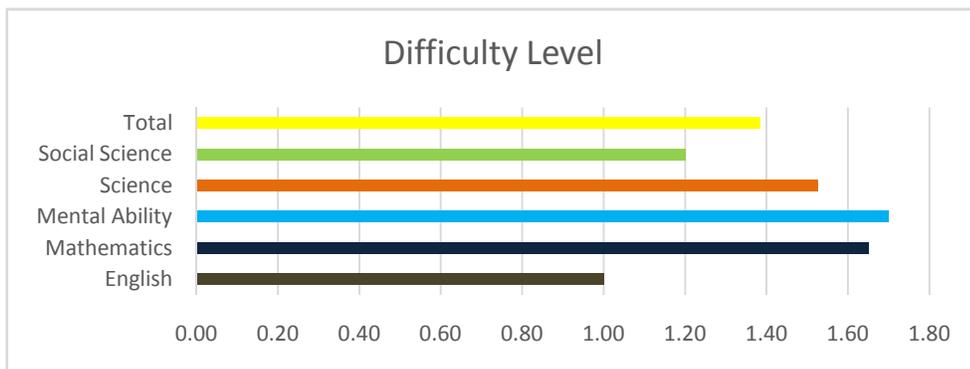
Subject	Class 9		Class 10		Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Biology	2	2	12	12	14	14
Chemistry	3	3	10	10	13	13
English			50	50	50	50
Mathematics	10	10	10	10	20	20
Mental Ability			50	50	50	50
Physics	2	2	11	11	13	13
Social Science	5	5	35	35	40	40
Grand Total	22	22	178	178	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	1.00
Mathematics	1.65
Mental Ability	1.70
Science	1.53
Social Science	1.20
Total	1.39



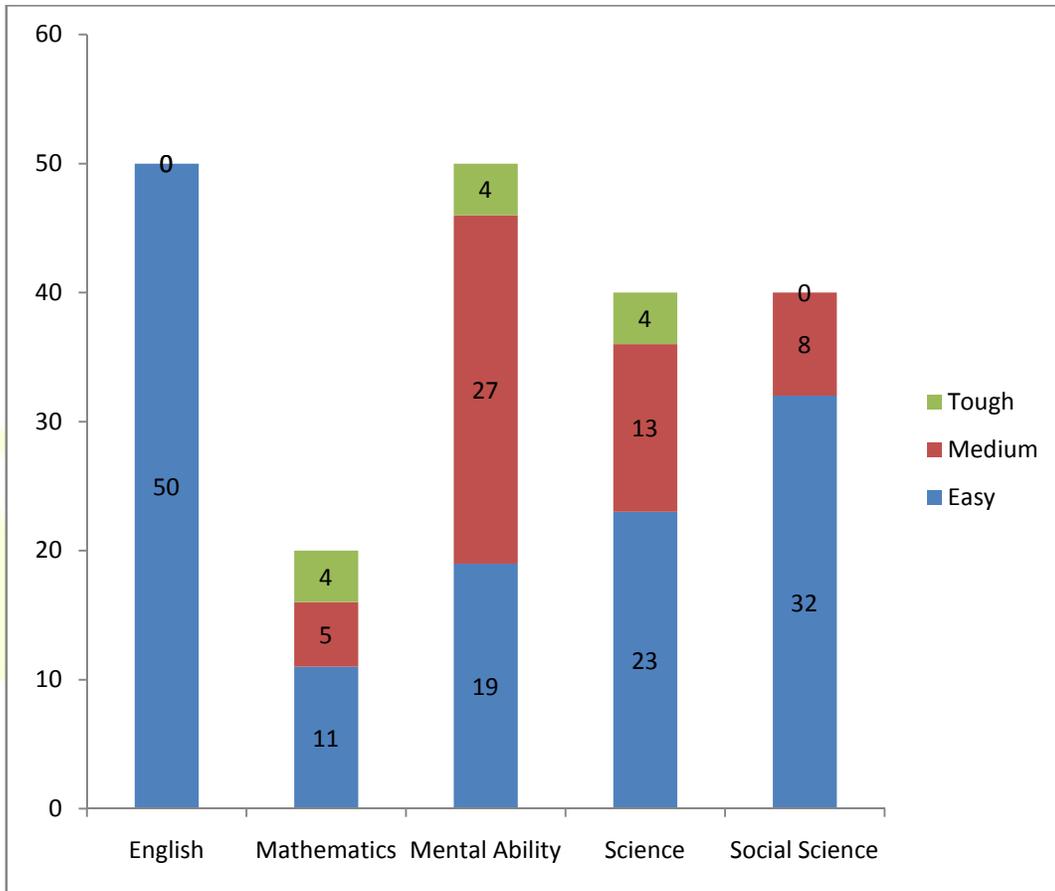
Difficulty Level Analysis: No of Questions

Subject	Easy Level		Medium Level		Difficult Level	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Biology	11	11	3	3		
Chemistry	7	7	5	5	1	1
English	50	50				
Mathematics	11	11	5	5	4	4
Mental Ability	19	19	27	27	4	4
Physics	5	5	5	5	3	3
Social Science	32	32	8	8		
Grand Total	135	135	53	53	12	12

Resonance Experts feel that all subjects except English were of similar difficulty level. While around 135 Marks can be considered easy overall out of 200 questions, 53 marks are moderately difficulty and 12marks 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

Social Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Social Science	40	40	100.00%
History	1	1	2.50%
American war of Independence age of Revolution	1	1	2.50%
Eco	6	6	15.00%
Basic Problems of economy and solution	1	1	2.50%
Inflation	1	1	2.50%
Introduction of Economy	2	2	5.00%
Public Distribution system	1	1	2.50%
Public Distribution system and Consumer Protection	1	1	2.50%
Geo	15	15	37.50%
CONCEPT OF REGION	1	1	2.50%
North Indian Mountains	4	4	10.00%
North Indian Plain western (Punjab & Haryana)	1	1	2.50%
North Indian Plains Desert	1	1	2.50%
Peninsular plateau Region	1	1	2.50%
Peninsular Plateau Region Central Highlands	2	2	5.00%
Peninsular plateau Region Deccan	2	2	5.00%
Physical Divisions of India	1	1	2.50%
THE NORTHERN PLAIN - CENTRAL DELTA+EASTERN	2	2	5.00%
History	14	14	35.00%
20th Century of Dictatorship in Europe	1	1	2.50%
20th Century age of conflict, Russian Revolution	1	1	2.50%
20th Century are of conflict, United Nations organization (UNO)	1	1	2.50%
Ancient and Medieval Civilization -India : Vedic culture	1	1	2.50%
Dictatorship of Hitler in Germany	1	1	2.50%
Emancipation of Asia & Africa	1	1	2.50%
Imperialism in Africa	1	1	2.50%
League of Nations	1	1	2.50%
Progress in science & Technology computer Information & Impotence	1	1	2.50%

Progress In science and Technology	2	2	5.00%
The Imperialism	1	1	2.50%
The Imperialism Asia	1	1	2.50%
The Renaissance	1	1	2.50%
Political science	1	1	2.50%
Making of constitution	1	1	2.50%
Political science	3	3	7.50%
Democracy	1	1	2.50%
Democracy and Diversity	1	1	2.50%
Political Parties	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%
Arithmetic Progression	1	1	5.00%
sum of n terms of AP	1	1	5.00%
Circles	2	2	10.00%
Circles	1	1	5.00%
length of tangents from external point	1	1	5.00%
Co-ordinate Geometry	1	1	5.00%
centroid of triangle by coordinate geometry	1	1	5.00%
Linear Equation in two variables	2	2	10.00%
word problem	2	2	10.00%
Number system	1	1	5.00%
rational exponents	1	1	5.00%
PROBABILITY	1	1	5.00%
probability of playing cards	1	1	5.00%
Quadratic Equations	2	2	10.00%
relation between roots and coefficient	2	2	10.00%
Rational numbers	1	1	5.00%
k method of ratio and proportion	1	1	5.00%
Statistics	2	2	10.00%
mode of data	1	1	5.00%
pie charts	1	1	5.00%
Surface area & Volumes	2	2	10.00%

surface area of cube	1	1	5.00%
volumes of solid figures	1	1	5.00%
Triangles	3	3	15.00%
areas of similar triangles	1	1	5.00%
Triangles	2	2	10.00%
Trigonometry	2	2	10.00%
trigonometric angles	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	17	17	34.00%
cube test	2	2	4.00%
dice test	3	3	6.00%
Figure Partition & counting	1	1	2.00%
Non verbal Classification	2	2	4.00%
Non-Verbal Analogy	2	2	4.00%
Non-verbal series	2	2	4.00%
Paper cutting and folding	3	3	6.00%
Pyramid Test	2	2	4.00%
Verbal Reasoning	33	33	66.00%
Alpha Numeric series	4	4	8.00%
Alphabet Series	4	4	8.00%
Analogy	4	4	8.00%
Arithmetical Reasoning	1	1	2.00%
Calendar Test	1	1	2.00%
classification	2	2	4.00%
Coding-Decoding	3	3	6.00%
direction sense Test	2	2	4.00%
Missing term in figure	3	3	6.00%
number series	3	3	6.00%

Puzzle Test	2	2	4.00%
Ranking & Ordering-Test	1	1	2.00%
Venn Diagram	3	3	6.00%
Grand Total	50	50	100.00%

ENGLISH ANALYSIS

English			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
English	50	50	100.00%
Comprehension	15	15	30.00%
Reading Comprehension	15	15	30.00%
Grammar	3	3	6.00%
Synonyms ,antonyms	3	3	6.00%
Grammar and Collocation	22	22	44.00%
Fillers	14	14	28.00%
Paragrath completion/cloze test	8	8	16.00%
Verbal Reasoning	4	4	8.00%
Rearrangement of sentences	4	4	8.00%
Vocabulary	6	6	12.00%
idioms and phrases	6	6	12.00%
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%
History	1	1	2.50%
American war of Independence age of Revolution	1	1	2.50%
Eco	6	6	15.00%
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Political Parties	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 118 from last year. In General category last year (2015) cutoff was 113 marks. In SC category last year (2015) cutoff was 95 and for ST last year (2015) cutoff was 89marks. The cutoff is calculated according to SAT & MAT paper. Only 40% qualifying marks is required in English or Language Test.