

## **Rajasthan NTSE - 2018**

### **A Detailed Analysis by Resonance**

**NTSE 2018:** 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 2018** examination and selection procedure.

**Eligibility:** As per the eligibility criteria of NTSE 2018, 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 Language Test (LCT) Syllabus**

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

#### **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-II) 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. 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 2018 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

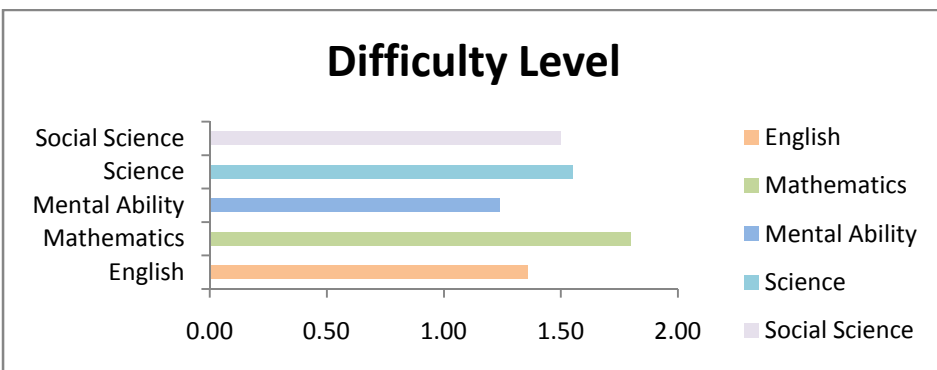
Subject	Class 8		Class 9		Class 10		Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
English					50	50	50	50
Mathematics			7	7	13	13	20	20
Mental Ability					50	50	50	50
Science			20	20	20	20	40	40
Social Science	1	1	15	15	24	24	40	40
<b>Grand Total</b>	1	1	42	42	157	157	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 averaged to calculate overall difficulty level.

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

Subject	Difficulty Level
English	1.36
Mathematics	1.80
Mental Ability	1.24
Science	1.55
Social Science	1.50
<b>Total</b>	<b>1.44</b>



### Difficulty Level Analysis: No of Questions

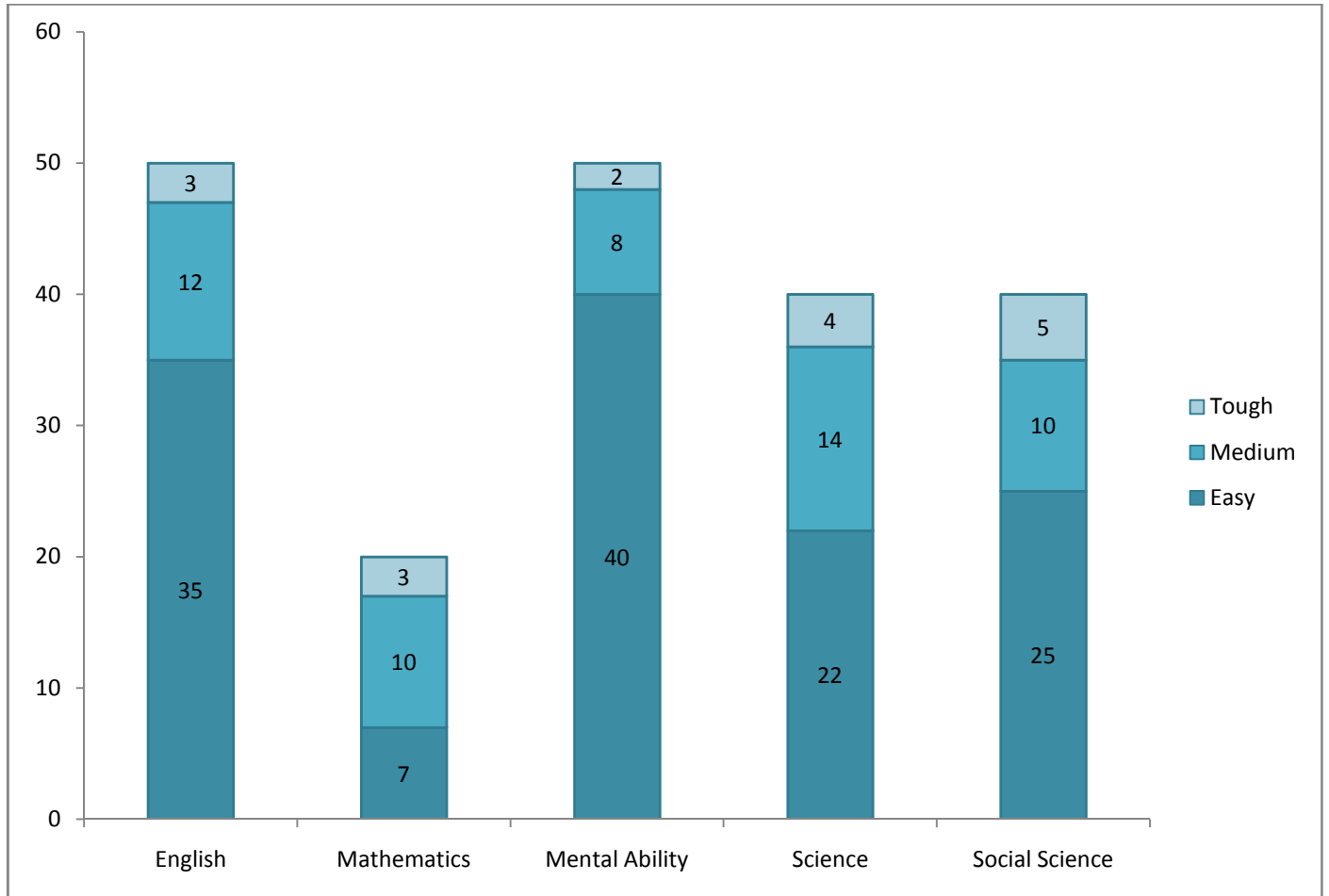
Subject	Easy Level		Medium Level		Difficult Level		Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
English	35	35	12	12	3	3	50	50
Mathematics	7	7	10	10	3	3	20	20
Mental Ability	40	40	8	8	2	2	50	50
Science	22	22	14	14	4	4	40	40
Social Science	25	25	10	10	5	5	40	40
<b>Grand Total</b>	<b>129</b>	<b>129</b>	<b>54</b>	<b>54</b>	<b>17</b>	<b>17</b>	<b>200</b>	<b>200</b>

Following points were observed by expert analysts of Resonance:

- Paper of Mental Ability and English were slightly easy than last year.
- Papers of Science, Social Science and Mathematics were on the tougher side as compared to last year.
- 10 questions came from RBSE syllabus.
- 2 questions have been adjudged bonus by Resonance.

As the MAT and SAT combined paper was more difficult than last year, cutoff is expected to go down.

## Question Wise Difficulty Breakup



### SUBJECT WISE ANALYSIS

#### SCIENCE ANALYSIS

Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
<b>Science</b>	<b>40</b>	<b>40</b>	<b>100.00%</b>
<b>Biology</b>	<b>14</b>	<b>14</b>	<b>35.00%</b>
Cell	2	2	5.00%
Control and Coordination	2	2	5.00%
Diversity	3	3	7.50%
Excretion	1	1	2.50%
Heredity and Evolution	1	1	2.50%
Natural Resources	1	1	2.50%
Nutrition	1	1	2.50%
Tissue	2	2	5.00%
Why do we fall ill	1	1	2.50%
<b>Chemistry</b>	<b>13</b>	<b>13</b>	<b>32.50%</b>
Acid Bases and Salts	2	2	5.00%
Atoms and Molecules	1	1	2.50%
Carbon and its compounds	3	3	7.50%
Chemical Reactions and Chemical Equations	1	1	2.50%
Matter	1	1	2.50%
Metal and Non Metals	2	2	5.00%
Mole Concept	1	1	2.50%
Structure of Atom	2	2	5.00%
<b>Physics</b>	<b>13</b>	<b>13</b>	<b>32.50%</b>
Electricity	3	3	7.50%
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	2	2	5.00%
Wave motion and sound	2	2	5.00%
<b>Grand Total</b>	<b>40</b>	<b>40</b>	<b>100.00%</b>

### MATHEMATICS ANALYSIS

Mathematics			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
<b>Mathematics</b>	<b>20</b>	<b>20</b>	<b>100.00%</b>
<b>Angle and their measurement</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Measurement of angle	1	1	5.00%
<b>Area of plane figures</b>	<b>3</b>	<b>3</b>	<b>15.00%</b>
Area of Parallelogram and Triangle	1	1	5.00%
Area related to circles	2	2	10.00%
<b>Arithmetic Progression</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
nth term	1	1	5.00%
<b>Circles</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Problem based on chords	1	1	5.00%
<b>Coordinate geometry</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Section formula	1	1	5.00%
<b>Lines and angles</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Angle related properties of triangle	1	1	5.00%
<b>Number System</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Rationalization	1	1	5.00%
<b>Polynomial</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Relationship between zeros and coefficient of quadratic polynomial	1	1	5.00%
<b>Probability</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Theoretical probability	1	1	5.00%
<b>Quadratic equations</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Nature of roots	1	1	5.00%
<b>Real Number</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Fundamental theorem of Arithmetic	1	1	5.00%
<b>Statistics</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Mean	1	1	5.00%

<b>Surface area and volume</b>	<b>3</b>	<b>3</b>	<b>15.00%</b>
Frustum	1	1	5.00%
Individual solids	2	2	10.00%
<b>Triangles</b>	<b>1</b>	<b>1</b>	<b>5.00%</b>
Similarity of triangle	1	1	5.00%
<b>Trigonometry</b>	<b>2</b>	<b>2</b>	<b>10.00%</b>
Heights and distances	1	1	5.00%
Trigonometric ratio	1	1	5.00%
<b>Grand Total</b>	<b>20</b>	<b>20</b>	<b>100.00%</b>

### MENTAL ABILITY ANALYSIS

Mental Ability			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
<b>Mental Ability</b>	<b>50</b>	<b>50</b>	<b>100.00%</b>
<b>Non Verbal Reasoning</b>	<b>21</b>	<b>21</b>	<b>42.00%</b>
Cube Test	1	1	2.00%
Dice Test	1	1	2.00%
Embedded Figure	2	2	4.00%
Figure Completion	1	1	2.00%
Figure Partition & counting	2	2	4.00%
Non-Verbal Classification	4	4	8.00%
Non-Verbal Series	4	4	8.00%
Paper cutting and folding	2	2	4.00%
Water Mirror Image	4	4	8.00%
<b>Verbal Reasoning</b>	<b>27</b>	<b>27</b>	<b>54.00%</b>
Alphabet Series	4	4	8.00%
Analogy	1	1	2.00%
Blood Relation	2	2	4.00%
Classification	2	2	4.00%

Coding-Decoding	2	2	4.00%
Direction Sense	1	1	2.00%
Logical Sequence of words	1	1	2.00%
Mathematical operations	2	2	4.00%
Missing term in figure	1	1	2.00%
Number Series	4	4	8.00%
Ranking & Ordering- Test	1	1	2.00%
Sitting arrangement	1	1	2.00%
Syllogism	1	1	2.00%
Venn Diagram	4	4	8.00%
<b>Verbal/Non Verbal Reasoning</b>	<b>2</b>	<b>2</b>	<b>4.00%</b>
Miscellaneous	2	2	4.00%
<b>Grand Total</b>	<b>50</b>	<b>50</b>	<b>100.00%</b>

### ENGLISH ANALYSIS

English			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
<b>English</b>	<b>50</b>	<b>50</b>	<b>100.00%</b>
<b>Grammar</b>	<b>25</b>	<b>25</b>	<b>50.00%</b>
Fillers based on Grammar	25	25	50.00%
<b>Verbal Ability</b>	<b>24</b>	<b>24</b>	<b>48.00%</b>
Misspelled words	2	2	4.00%
Ordering of words	3	3	6.00%
Phrasal verbs	6	6	12.00%
Reading Comprehension	5	5	10.00%
Vocabulary	8	8	16.00%
<b>Verbal/Non Verbal Reasoning</b>	<b>1</b>	<b>1</b>	<b>2.00%</b>
Miscellaneous	1	1	2.00%
<b>Grand Total</b>	<b>50</b>	<b>50</b>	<b>100.00%</b>



### SOCIAL SCIENCE ANALYSIS

Social Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
<b>Social Science</b>	<b>40</b>	<b>40</b>	<b>100.00%</b>
<b>ECONOMICS</b>	<b>6</b>	<b>6</b>	<b>15.00%</b>
Consumer rights	1	1	2.50%
Globalization and the Indian economy	1	1	2.50%
Money and Credit	2	2	5.00%
Sectors of Indian economy	1	1	2.50%
The story of village Palampur	1	1	2.50%
<b>GEOGRAPHY</b>	<b>12</b>	<b>12</b>	<b>30.00%</b>
Agriculture	2	2	5.00%
Climate	1	1	2.50%
Drainage	1	1	2.50%
India size and Location	1	1	2.50%
Lifelines of the national economy	1	1	2.50%
Manufacturing industries	1	1	2.50%
Mineral and power resources	1	1	2.50%
Natural Vegetation and Wildlife	1	1	2.50%
Physical features of India	1	1	2.50%
Population	1	1	2.50%
Resources and Development	1	1	2.50%
<b>HISTORY</b>	<b>11</b>	<b>11</b>	<b>27.50%</b>
French Revolution	1	1	2.50%
Making of a Global World	1	1	2.50%
Nationalism in Europe	1	1	2.50%
Nationalism in India	2	2	5.00%
Nationalist Movement in India	1	1	2.50%
Nazism and The Rise of Hitler	1	1	2.50%

Novels Society	1	1	2.50%
Print culture and the Modern world	1	1	2.50%
Retaliation and Struggle of British Empire	1	1	2.50%
The Age of Industrialization	1	1	2.50%
<b>POLITICAL SCIENCE</b>	<b>11</b>	<b>11</b>	<b>27.50%</b>
Central Government	4	4	10.00%
Constitutional design	1	1	2.50%
Democratic Rights	1	1	2.50%
Electoral Politics	1	1	2.50%
Federalism	1	1	2.50%
State Government	1	1	2.50%
Working of the Institutions	2	2	5.00%
<b>Grand Total</b>	<b>40</b>	<b>40</b>	<b>100.00%</b>

### EXPECTED CUTOFF

Resonance Experts feel that as the overall paper was difficult from previous year, the cutoff is expected to decrease from last year. As per Resonance Experts, cutoff should decrease to **134 from 137** last year.