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## Detailed Analysis of NTSE STAGE-I-2015 Gujarat State

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NTSE Stage-I (Gujrat) 2015 was conducted in three parts:

1. Paper 1 (MAT) from 9 AM to 9.45AM
2. Paper 2 (LCT) from 10.15 am to 11am
3. Paper 3 (SAT) from 11.30AM to 1 pm

Paper 3 SAT contains 40 questions each from Physics and Chemistry, Biology , 20 questions each from Mathematics and 40 questions each from Social Science.

### Overall Difficulty Level Analysis

Subject	Easy Level		Medium Level		Difficult Level	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Chemistry	6	6	7	7	0	0
Mathematics	8	8	8	8	4	4
Physics	5	5	5	5	3	3
Biology	7	7	4	4	3	3
MAT	30	30	12	12	8	8
Social Studies	47	47	3	3	0	0
LCT	19	19	12	12	9	9
Grand Total	122	122	51	51	27	27

Table Supporting: Overall Difficulty Level Analysis

## Subject Analysis

ANALS. No.	SUBJECT	YEAR	
1	Physics	13	13
2	Chemistry	13	13
3	Biology	14	14
5	Mathematics	20	20
6	Mental Ability	50	50
7	English	50	50
8	Social Science	40	40
Total Question		200	200
Total Marks		200	200

Table Supporting: Subject Analysis

## Subject Wise Analysis

### Physics

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
1	Light	4	4	30.76
2	Electricity	2	2	15.38
3	Motion	1	1	7.69
4	Magnetism	0	0	0
5	Gravitation	1	1	7.69
6	Fluid	0	0	0
7	Work, Energy & Power	0	0	0
8	Sound	1	1	7.69

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
9	Sources of Energy & Nuclear Physics	1	1	7.69
10	Force and Laws of Motion	1	1	7.69
11	Miscellaneous	2	2	15.38
Total Number of Questions		13	13	100

Table Supporting: Physics

## Chemistry

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
1	Matter	1	1	7.69
2	Mole Concept	2	2	15.38
3	Periodic Table	0	0	0
4	Thermo dynamics	0	0	0
5	Chemical Reactions	0	0	0
6	Chemical Bonding	0	0	0
7	Chemical Kinetics	0	0	0
8	Chemical Equilibrium	0	0	0
9	Synthetic Fibre & Plastic	0	0	0
10	Carbon and its compounds	1	1	7.69
11	Structure of Atom	1	1	7.69
12	Gaseous State	0	0	0
13	Acid, Base & Salts	4	4	30.76
14	Metals and Non metals	4	4	30.76
15	Coal & Petroleum	0	0	0

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
16	Nuclear Chemistry	0	0	0
Total Number of Questions		13	13	100

Table Supporting: Chemistry

## Mathematics

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
1	Number System	3	3	15
2	Surds and Exponents	2	2	10
3	Polynomial	4	4	20
4	Linear Equations in two variables	1	1	5
5	Quadratic Equations	1	1	5
6	Set	1	1	5
7	Trigonometry	1	1	5
8	Commercial Maths	1	1	5
9	Line and Angles, Triangles	0	0	0
10	Quadrilateral	1	1	5
11	Circle	1	1	5
12	Perimeter and Area of Plane Figure	0	0	0
13	Surface Area & Volume	2	2	10
14	Statistics	1	1	5
15	Probability	1	1	5
Total Number of Questions		20	20	100

Table Supporting: Mathematics

## Biology

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
1	Fundamental unit of life (Cell)	1	1	7.14
2	Tissue	2	2	14.28
3	Reproduction	1	1	7.14
4	Why do we fall ill?	2	2	14.28
5	Nutrition	2	2	14.28
6	Environment	2	2	14.28
7	Improvement of Food Resources	0	0	0
8	Respiration	0	0	0
9	Control & Coordination	1	1	7.14
10	Heredity and evolution	0	0	0
11	Diversity of Living World	1	1	7.14
12	Transportation	2	2	14.28
	Total Number of Question	12	12	100

Table Supporting: Biology

## Social Science

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
1	History			
2	Handicraft	1	1	2.5
3	Culture Architect	1	1	2.5

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
4	Literature	4	4	10
5	Place of Indian culture Haritage	3	3	7.5
6	Influence of British Rule	2	2	5
7	National Movements	1	1	2.5
8	Peasants and Farmers	0	0	0
9	Work life and leisure	0	0	0
10	Nationalism in India	0	0	0
11	Civics			
12	Constitutional	9	9	22.5
13	Framework	2	2	5
14	Organs of Govt.	2	2	5
15	Fundamental Rules & Duties	1	1	2.5
16	Working of Institution	1	1	2.5
17	Geography			
18	Agriculture	1	1	2.5
19	Physical Divisions of India	1	1	2.5
20	Drainage	5	5	12.5
21	Forest & wild life resources	1	1	2.5
22	Natural Vegetation & Wildlife	1	1	2.5
23	India Size & Location	4	4	10
24	Economics			

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
30	Story of village palampur	0	0	0
31	Development	5	5	12.5
33	Money & Credit	0	0	0
<b>Total Number of Question</b>		40	40	100
<i>Table Supporting: Social Science</i>				

## Mental Ability

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
1	Number Series	10	10	20
2	Alphabet Series	0	0	0
3	Letter Repeating Series	0	0	0
4	Missing term in figure	5	5	10
5	Mathematical operations	0	0	0
6	Coding-Decoding	11	11	22
7	Sitting arrangement	0	0	0
8	Direction Sense	2	2	4
9	Alphabet test	0	0	0
10	Ranking & Ordering- Test	1	1	2
11	Blood Relations	1	1	2
12	Venn Diagram	0	0	0
13	Analogy	1	1	2
14	Classification	4	4	8
15	Logical Sequencing of Words	0	0	0

S. No.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
16	pyramid Test	0	0	0
17	Calendar TEST	3	3	6
18	CLOCK TEST	3	3	6
19	Cube	0	0	0
20	Dice Test	1	1	2
21	Paper Folding & Paper Cutting	0	0	0
22	Figure Partition & counting	0	0	0
23	Non-Verbal Series	0	0	0
24	Non-Verbal Analogy	0	0	0
25	Non-Verbal Classification	5	5	10
26	Syllogism	0	0	0
27	Decision Making	0	0	0
28	State ment& Assumption		0	0
29	Dot Situation	0	0	0
30	Mirron Image & Water Image	0	0	0
31	Arithmetical Reasoning	3	3	6
Total Number of Question		50	50	100

Table Supporting: Mental Ability

### English (LCT)

S. NO.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
1	Tenses	7	7	14
2	Degree	5	5	10



S. NO.	TOPIC	NO OF QUES.	TOTAL MARKS	% WEIGHTAGE
3	Plural	2	2	4
4	Question tag	3	3	6
5	Punctuation	1	1	2
6	Sentence-correction	2	2	4
7	Articals	1	1	2
8	Preposition	3	3	6
9	Comprehension	5	5	10
10	Active-passives	2	2	4
11	Antonyms	2	2	4
12	Gender	1	1	2
13	Conjunction	1	1	2
Total number of question		50	50	100
Table Supporting: English (LCT)				