STSE (SENIOR - 2015 (RAJASTHAN)

A Detailed Analysis by Resonance

ABOUT STSE (RAJASTHAN)

Every year, Rajasthan Board of Secondary Education conducts "Science Talent Search Examination (STSE)" for Science and Technology Department, Government of Rajasthan, Jaipur. This year too, this exam has been conducted on Sunday, November 01, 2015.

EXAM FORMAT

Based on the question paper analysis of STSE – 2015 held on November 01, 2015, there were 2 papers paper with details given in the table below:

S#	SUBJECT	TOTAL QUESTIONS ASKED	Max. MARKS
1.	Physics	30	30
2.	Chemistry	30	30
3.	Mathematics (Optional)	30	30
4.	Biology (Optional)	30	30
5.	Mental Aptitude/ Language	90	90
	(Paper 2)		
	GRAND TOTAL	180	180

* Students had to choose either one of the Biology and Mathematics from Paper 1 while Paper 2 was common for both.

Educating for better tor

ELIGIBILITY CRITERIA FOR STSE

All students of affiliated/ approved schools in state (Central, Public, Convent, Private, Government, Semi-government etc.) who are currently studying in class XII are eligible to give this examination. Students can attempt only one of the Biology and Mathematics according to their stream while Physics and Chemistry is compulsory for students.

SUBJECTS COVERED

Physics, Chemistry, Mathematics, Biology, General Science, Mental Aptitude.

STSE - 2015 (RAJASTHAN)

STSE – 2015 (Rajasthan) was conducted on Sunday, November 1st, 2015. A total number of 180 questions were asked. Question format was multiple choice with only one correct option out of four with no negative marking. Each question was worth 1 points, making total paper worth 180. 90 questions were to

be answered from Subject knowledge (Physics, Chemistry and Mathematics/ Biology) while 90 questions were to be answered from mental aptitude and language aptitude.

OVERALL DIFFICULTY LEVEL ANALYSIS

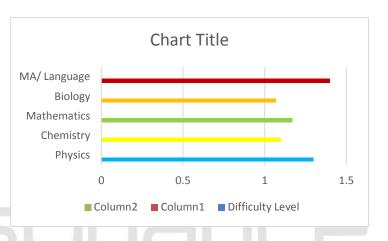
In this analysis we have rated every question on a scale of 1 to 3. The ratings are done by expert faculty of Resonance. The individual ratings are then averaged to calculate overall difficulty level.

• 1: Easy

• 2: Moderate

• 3: Difficult

Subject	Difficulty Level	
Physics	1.3	
Chemistry	1.1	
Mathematics	1.17	
Biology	1.07	
MA/ Language	1.4	
Overall Average (B/M)	1.28/1.30	



SUBJECT WISE LEVEL OF DIFFICULTY ANALYSIS at Ing for better tomorrow

STSE – 2015 (RAJASTHAN) DIFFICULTY ANALYSIS						
	EASY LEVEL		MEDIUM LEVEL		DIFFICULT LEVEL	
SUBJECT	No of	Total	No of	Total	No of	Total
	Questions	Marks	Questions	Marks	Questions	Marks
Physics	23	23	5	5	2	2
Chemistry	28	28	1	1	1	1
Mathematics	26	26	3	3	1	1
Biology	28	28	2	2	0	0
MA/ Language	62	62	20	20	8	8
GRAND TOTAL (B/M)*	141/139	141/139	28/29	28/29	11/12	11/12

^{*} Grand Total calculated for Biology and Mathematics Stream separately.

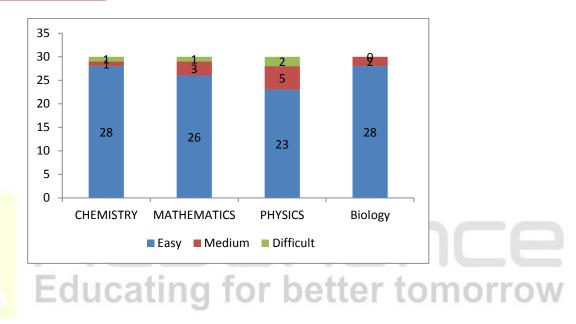
Resonance Experts feel that all subjects were of similar difficulty level, while Chemistry was on easier side compared with Physics & Mathematics. Mental Aptitude and Language was on a relatively difficult side.



For Mathematics Stream Students, around 139 Marks can be considered easy overall, 29 marks are relatively difficulty and 12 marks are considered difficult by Resonance Team. For Biology Stream Students, around 141 Marks can be considered easy overall, 28 marks are relatively difficulty and 11 marks are considered difficult by Resonance Team.

Overall, it is felt that while paper is relatively easy like last year, the cut-off may remain same as last year.

MARK WISE DIFFICULTY BREAKUP



SUBJECT WISE ANALYSIS (PAPER 1)

PHYSICS ANALYSIS

Unit & Topic Name	Total Marks	% Weightage
OVERALL BREAKUP	30	33.33%
Current Electricity	3	3.33%
Electro Magnetic Induction And AC	2	2.22%
Electrostatics	1	1.11%
EM Waves & Communications	2	2.22%
Fluids Mechanics	2	2.22%
Geometrical Optics	2	2.22%
Gravitation	1	1.11%
KTG & Thermodynamics	2	2.22%
Magnetism	1	1.11%
Modern Physics	5	5.56%
Projectile Motion & Kinematic	2	2.22%
Semi-Conductors	2	2.22%
Shm	1	1.11%
Sound Waves And String Waves	1	1.11%
Work Energy And Power	3	3.33%



CHEMISTRY ANALYSIS

Unit & Topic Name	Total Marks	% Weightage
OVERALL BREAKUP	30	33.33%
Aldehyde And Ketone	1	1.11%
Aldehyde And Ketone	1	1.11%
Bimolecule	1	1.11%
Chemical Bonding	6	6.67%
Chemical Kinetics	1	1.11%
Chemistry In Everyday Life	1	1.11%
D & F Block	1	1.11%
Electro Chemistry	1	1.11%
Goc	2	2.22%
Hydrocarbon	1	1.11%
Ionic Equilibrium	2	2.22%
Metallurgy	2	2.22%
Mole Concept	2	2.22%
P- Block	4	4.44%
Polymer	1	1.11%
S- Block	2	2.22%
Surface Chemistry	1	1.11%

MATHEMATICS ANALYSIS (OPTIONAL PAPER)

Unit & Topic Name	Total Marks	% Weightage
OVERALL BREAKUP	30	33.33%
3d Geometry	1	1.11%
Appication Of Derivatives	2	2.22%
Area	1	1.11%
Binomial Therorem	1	1.11%
Circle	1	1.11%
Complex Number	1	1.11%
Coordinate Geometry	1	1.11%
Definite Integration	1	1.11%
Determinant	1	1.11%
Differentiability	1	1.11%
Differentiation	2	2.22%
Function	2	2.22%
Indefinite Integration	2	2.22%
Inverse Trigonometry	1	1.11%
Matrix	2	2.22%
Parabola	1	1.11%
Permutation And Combination	2111192	2.22%
Probability	1	1.11%
Progression	1	1.11%
Set Theory	1	1.11%
Statistics	1	1.11%
Trigonometry	2	2.22%
Vectors	1	1.11%



BIOLOGY ANALYSIS (OPTIONAL PAPER)

Unit & Topic Name	Total Marks	% Weightage
OVERALL BREAKUP	30	33.33%
Biology In Human Welfare	6	6.67%
Cytology	1	1.11%
Diversity In Living World	6	6.67%
Ecology	1	1.11%
Genetics	1	1.11%
Physiology	9	10.00%
Plant Morphology	2	2.22%
Reproduction	2	2.22%
Structural Organisation In Animals	2	2.22%



MENTAL APTITUDE AND LANGUAGE (PAPER 2)

Unit & Topic Name	Total Marks	% Weightage
LCT	40	44.44%
Autonyms	2	5.00%
Clause Analysis	2	5.00%
Determiner	2	5.00%
Fill up/ Connection	4	10.00%
Fill up/ Phrasal Verb	4	10.00%
Framing Question	1	2.50%
Modal	3	7.50%
Naration	2	5.00%
Passive	2	5.00%
Phrase	1	2.50%
Punctuation error	cating f	5.00%
Sentence Ordering	2	5.00%
Spelling Correction	2	5.00%
Subject verb Agreement	2	5.00%
Synonyms	4	10.00%
Tag Question	1	2.50%
Tense	2	5.00%
Transformation	2	5.00%
MAT	50	55.56%
alphabet series	1	2.00%
Alphabet test	3	6.00%
Analogy	2	4.00%
Arithmetic Reasoning	2	4.00%



Grand Total	90	100.00%	
Water Image	2	4.00%	
Venn Diagram	2	4.00%	
Symmetry with Origin	1	2.00%	
Ranking And Ordering	1	2.00%	
number series	1	2.00%	
non verbal series	2	4.00%	
Non verbal classification	cating 1	2.00%	
non verbal analogy	2	4.00%	omorrow
Missing Terms In Figure	2	4.00%	ILE
Mirror Image	2	4.00%	
Mathematical Operation	2	4.00%	
Logical Sequence of Words	2	4.00%	
Figure formation	4	8.00%	
Figure completion	2	4.00%	
Direction sense test	2	4.00%	
Dice Test	1	2.00%	
Decision Making	2	4.00%	
Cube Test	1	2.00%	
Counting the figure	2	4.00%	
coding decoding	2	4.00%	
classification	2	4.00%	
Blood Relation	4	8.00%	



EXPECTED CUTOFF

Overall, it is felt that while paper is relatively easy like last year, the cut-off may remain same as last year.

