STSE Class XII Rajasthan Science Stream 2019

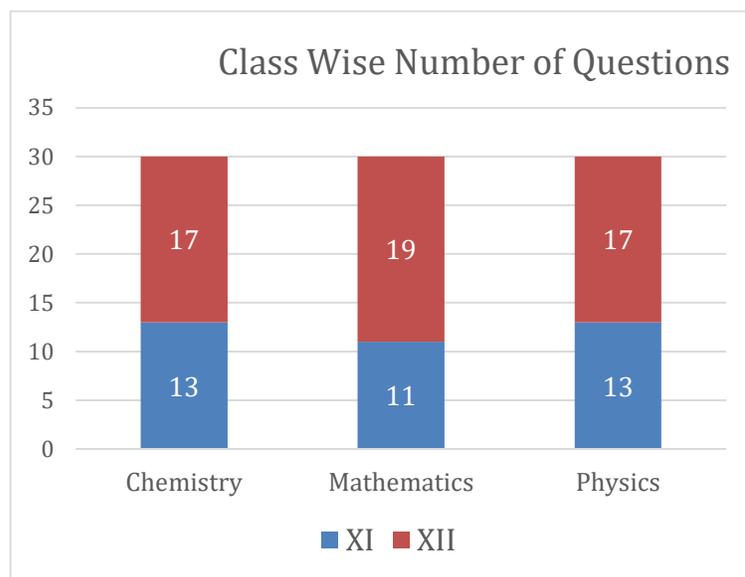*Date : 24th November 2019*

A Detailed Analysis by Resonance

"Board of secondary education of Rajasthan" (BSER) has conducted the State Talent Search Examination (STSE) on 24th November, 2019. STSE is a state level examination cum scholarship program. The purpose of the exam is to identify the talented students and nurture their talent.

Eligibility: As per the eligibility criteria of STSE 2019 ,all the students of class 12th studying in recognized schools who have secured minimum 50% marks in class 11th are eligible to appear for this examination.

OVERALL MARKS DISTRIBUTION

The paper had 90 questions each worth 1 marks. All questions were objective type with single correct option. Subject wise each subject had 30 questions of 30 marks.

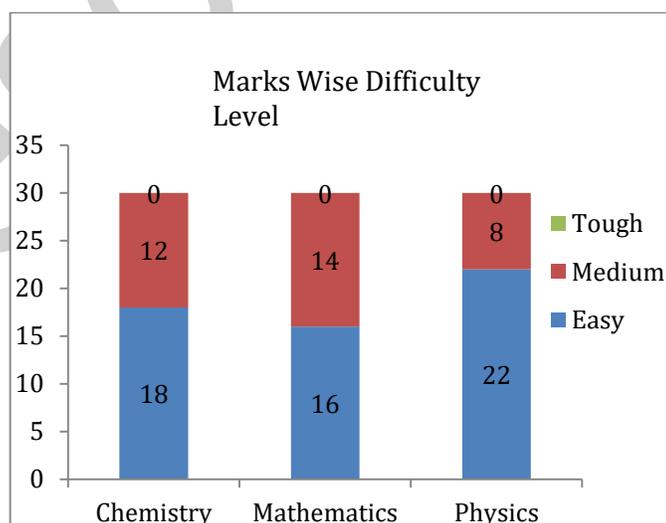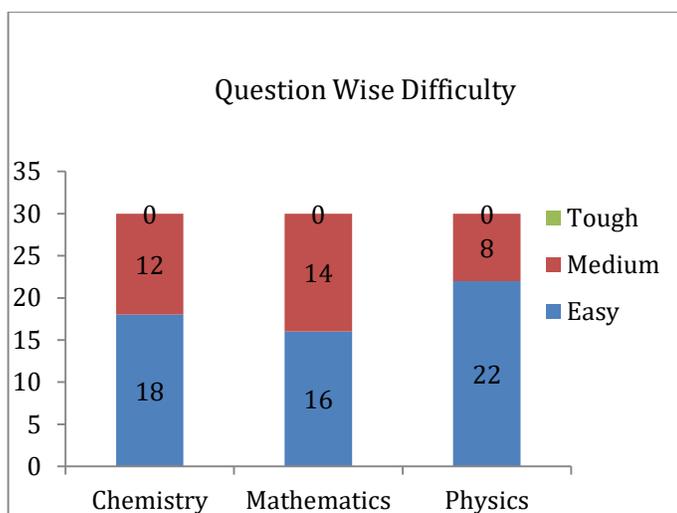| Subject	Class 11		Class 12		Total Percentage	
	No of Questions	Total Marks	No of Questions	Total Marks	Class 11	Class 12
Chemistry	13	13	17	17	43%	57%
Mathematics	11	11	19	19	37%	63%
Physics	13	13	17	17	43%	57%
Grand Total	37	37	53	53	41.11%	58.89%

SUBJECT-WISE DIFFICULTY LEVEL ANALYSIS: NO OF QUESTIONS

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	Easy Level		Medium Level		Difficult Level	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Chemistry	18	18	12	12	0	0
Mathematics	16	16	14	14	0	0
Physics	22	22	8	8	0	0
Grand Total	56	56	34	34	0	0

Question Wise Difficulty

Subject	Easy	Medium	Tough
Chemistry	18	12	0
Mathematics	16	14	0
Physics	22	8	0

Marks Wise Difficulty Level

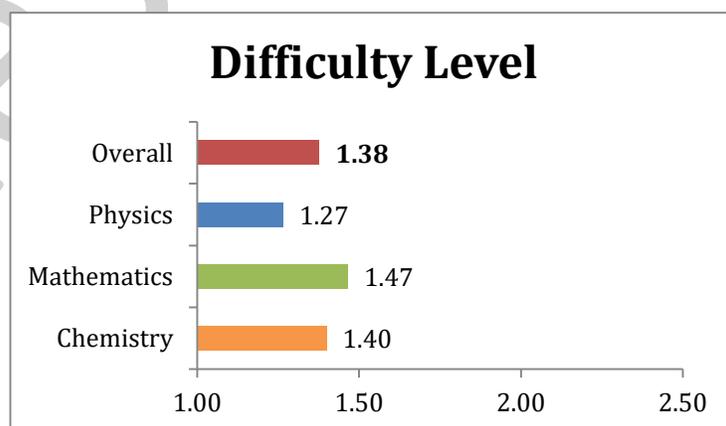| Subject	Easy	Medium	Tough
Chemistry	18	12	0
Mathematics	16	14	0
Physics	22	8	0

Resonance experts feel that Mathematics paper was on tougher side as compared to Physics and Chemistry. Out of 90 marks, **56** marks paper can be considered of easy level, **34** marks can be considered of medium difficulty level.

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
Chemistry	1.40
Mathematics	1.47
Physics	1.27
Overall	**1.38**

Difficulty Level

Overall	**1.38**
Physics	1.27
Mathematics	1.47
Chemistry	1.40

1.00   1.50   2.00   2.50

PHYSICS ANALYSIS

PHYSICS			
UNIT & TOPIC NAME	**NO OF QUESTIONS**	**TOTAL MARKS**	**(%) WEIGHTAGE**
Physics	**30**	**30**	**100.00%**
Electrodynamics	**12**	**12**	**40.00%**
Current Electricity	5	5	16.67%
Electro Magnetic Field	2	2	6.67%
Alternating Current	2	2	6.67%
Electrostatics	2	2	6.67%
Electro Magnetic Induction	1	1	3.33%
Heat & Thermodynamics	**1**	**1**	**3.33%**
KTG & Thermodynamics	1	1	3.33%
Mechanics	**11**	**11**	**36.67%**
Rigid Body Dynamics	1	1	3.33%
Work, Power & Energy	1	1	3.33%
Centre of Mass	1	1	3.33%
Rectilinear Motion & Vectors	3	3	10.00%
Gravitation	1	1	3.33%
Projectile Motion	2	2	6.67%
Error and Measurement	2	2	6.67%
Modern Physics	**4**	**4**	**13.33%**
Atomic Physics	1	1	3.33%
Semiconductors	2	2	6.67%
Electromagnetic waves & communication	1	1	3.33%
Optics	**1**	**1**	**3.33%**
Geometrical Optics & Physical Optics	1	1	3.33%
SHM & Waves	**1**	**1**	**3.33%**
SHM	1	1	3.33%
Grand Total	**30**	**30**	**100.00%**

CHEMISTRY ANALYSIS

CHEMISTRY			
UNIT & TOPIC NAME	**NO OF QUESTIONS**	**TOTAL MARKS**	**(%) WEIGHTAGE**
Chemistry	**30**	**30**	**100.00%**
Inorganic Chemistry-I	**7**	**7**	**23.33%**
Chemical Bonding	1	1	3.33%
p-block	2	2	6.67%
Environmental chemistry	1	1	3.33%
s-block	1	1	3.33%
Periodic Table & Periodicity in Properties	1	1	3.33%
Hydrogen & Its Compounds	1	1	3.33%
Inorganic Chemistry-II	**3**	**3**	**10.00%**
Coordination Compounds	1	1	3.33%
Metallurgy	1	1	3.33%
d-block & f-block Elements	1	1	3.33%
Organic Chemistry-II	**9**	**9**	**30.00%**
Aromatic Compounds	2	2	6.67%
Biomolecules	1	1	3.33%
Chemistry in Everyday life	1	1	3.33%
Organic Reaction Mechanism III	1	1	3.33%
Polymers	1	1	3.33%
Carbonyl compounds	1	1	3.33%
IUPAC & Isomerism	1	1	3.33%
Hydrocarbon (Alkane, Alkene & Alkyne)	1	1	3.33%
Physical Chemistry-I	**7**	**7**	**23.33%**
Gaseous State	1	1	3.33%
Ionic Equilibrium	2	2	6.67%
Thermodynamics and Thermochemistry	1	1	3.33%
Mole Concept	2	2	6.67%
Atomic Structure & Nuclear Chemistry	1	1	3.33%
Physical Chemistry-II	**4**	**4**	**13.33%**
Chemical Kinetics	1	1	3.33%
Electrochemistry	1	1	3.33%
Surface Chemistry	1	1	3.33%
Solution & Colligative Properties	1	1	3.33%
Grand Total	**30**	**30**	**100.00%**

MATHEMATICS ANALYSIS

MATHEMATICS			
UNIT & TOPIC NAME	**NO OF QUESTIONS**	**TOTAL MARKS**	**(%) WEIGHTAGE**
Maths	**30**	**30**	**100.00%**
Binomial Theorem	**1**	**1**	**3.33%**
Binomial Theorem	1	1	3.33%
Complex Numbers	**2**	**2**	**6.67%**
Complex Numbers	2	2	6.67%
Coordinate Geometry	**3**	**3**	**10.00%**
Circle	1	1	3.33%
Ellipse	1	1	3.33%
Straight Line	1	1	3.33%
Differential Calculus	**7**	**7**	**23.33%**
Limit, Continuity & Differentiability	2	2	6.67%
Application of Derivatives	3	3	10.00%
Functions	1	1	3.33%
Methods of Differentiation	1	1	3.33%
Fundamentals of Mathematics	**1**	**1**	**3.33%**
Fundamentals of Mathematics	1	1	3.33%
Integral Calculus	**4**	**4**	**13.33%**
Definite integration	2	2	6.67%
Differential equation	1	1	3.33%
Indefinite integration	1	1	3.33%
Matrix & Determinants	**2**	**2**	**6.67%**
Matrices & Determinants	2	2	6.67%
Permutation & Combination	**2**	**2**	**6.67%**
Permutation & Combination	2	2	6.67%
Probability	**2**	**2**	**6.67%**
Probability	2	2	6.67%
Sequence & Series	**2**	**2**	**6.67%**
Sequence & Series	2	2	6.67%
Trigonometry	**3**	**3**	**10.00%**
Trigonometric Ratio & identities	2	2	6.67%
Inverse Trigonometric function	1	1	3.33%
Vector and 3D	**1**	**1**	**3.33%**
Vector	1	1	3.33%
Grand Total	**30**	**30**	**100.00%**