

JEE (Advanced) 2019 Overall Analysis- **Actual Paper**

**A Detailed Analysis by
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After introducing major changes in IIT Admission Process in 2013, on 27-May-2019 (Sunday) JEE Advanced 2019, stage-2 for IIT Admission Process was conducted by IIT Roorkee. Top 2.45 Lakh students were eligible through marks in JEE Main 2019, out of which 1.76 Lakh students have filled the JEE Advanced Exam form.

As earlier IIT-JEE Examinations, JEE (Advanced) 2019 was conducted in two parts (Paper 1 & Paper 2) by IIT Roorkee. Paper 1 was conducted from 9 AM to 12 PM and Paper 2 was conducted from 2 PM to 5 PM.

Only candidates who appear in both Paper 1 and Paper 2 will be considered for ranking. Results will be declared on Friday, June 14, 2019. Category-wise All India Ranks (AIR) of successful candidates will be available on the online portal after the results are declared. The text messages will be sent to the candidates to their registered mobile numbers.

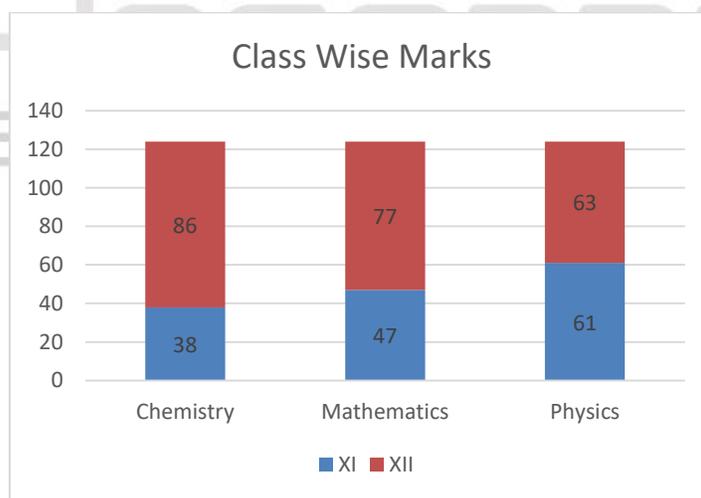
The seats across IITs, NITs, IIITs and other Govt. Funded Technical Institutes (GFTIs) will be allocated by the Joint Seat Allocation Authority (JoSAA). All the candidates who are eligible for admission will have to participate in the joint seat allocation process by filling in their choices of the courses. The detailed instructions for filling-in the choices and the seat allotment procedure will be made available by JoSAA through Seat Allotment Brochure.

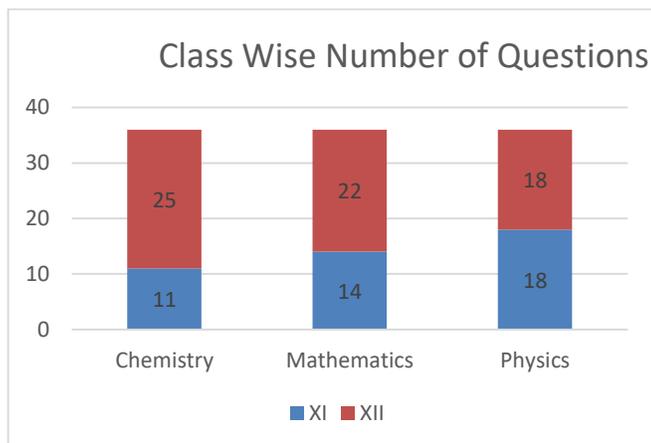
OVERALL MARKS DISTRIBUTION

In Paper I & II both, Total **54** Questions were asked. 18 Questions from each subject were asked. Both papers were of 186 marks. Each subject was of 62 marks overall. Total marks for both paper combined were 372.

Total **146 marks** questions were from class **11th syllabus** and **226 marks** questions were from **class 12th** syllabus.

Subject	Class 11		Class 12		Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Chemistry	11	38	25	86	36	124
Mathematics	14	47	22	77	36	124
Physics	18	61	18	63	36	124
Grand Total	43	146	65	226	108	372





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 faculties of Resonance. The individual ratings are then averaged to calculate overall difficulty level.

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

Difficulty Level Analysis

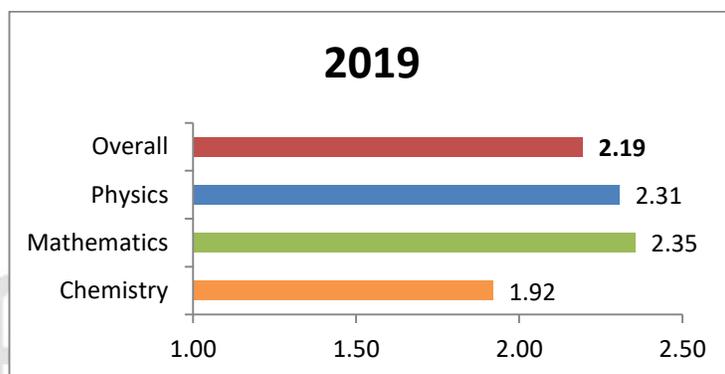
Subject	Easy Level		Medium Level		Difficult Level	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Chemistry	9	31	21	72	6	21
Mathematics	6	20	12	40	18	64
Physics	4	13	18	60	14	51
Grand Total	19	64	51	172	38	136

Overall Chemistry was the easiest compared to Physics and Mathematics

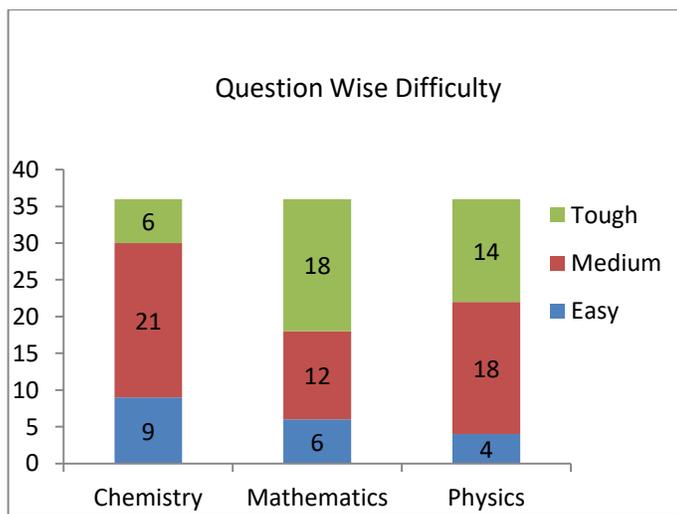
Overall, Resonance experts feel that the paper was relatively tough than the last year.

In total, easy questions comprised of **64 marks**, moderate questions comprised of **172 marks** and difficult questions comprised of **136 marks**.

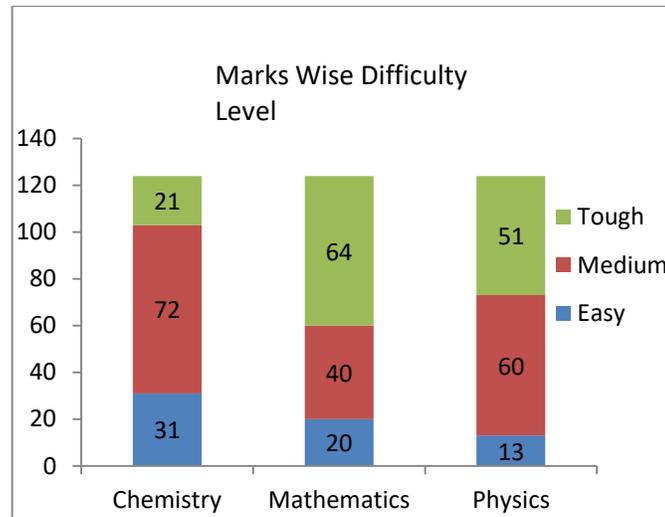
Overall Difficulty



Question Wise Difficulty Breakup



Mark Wise Difficulty Breakup



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SUBJECT WISE ANALYSIS : PHYSICS ANALYSIS

Topic wise Allocation of Marks

PHYSICS			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Physics	36	124	100.00%
Electrodynamics	8	29	23.39%
Capacitance	2	7	5.65%
Electro Magnetic Induction	2	7	5.65%
Electrostatics	3	11	8.87%
Current Electricity	1	4	3.23%
Heat & Thermodynamics	6	20	16.13%
KTG & Thermodynamics	5	17	13.71%
Calorimetry & Thermal Expansion	1	3	2.42%
Mechanics	9	31	25.00%
Centre of Mass	1	4	3.23%
Error in Measurement	1	3	2.42%
Gravitation	1	3	2.42%
Rigid Body Dynamics	1	4	3.23%
Surface Tension	1	4	3.23%
Work, Power & Energy	1	3	2.42%
Elasticity & Viscosity	1	3	2.42%
Projectile Motion	1	3	2.42%
Unit & Dimension	1	4	3.23%
Modern Physics	4	13	10.48%
Modern Physics	2	7	5.65%
Nuclear Physics	2	6	4.84%
Optics	5	18	14.52%
Geometrical Optics & Physical Optics	4	14	11.29%
Wave Optics	1	4	3.23%
SHM & Waves	4	13	10.48%
Sound Waves	1	3	2.42%
String Wave	2	6	4.84%
SHM	1	4	3.23%
Grand Total	36	124	100.00%

CHEMISTRY ANALYSIS

Topic wise Allocation of Marks

CHEMISTRY			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Chemistry	36	124	100.00%
Inorganic Chemistry-I	4	14	11.29%
Chemical Bonding	1	3	2.42%
p-block	3	11	8.87%
Inorganic Chemistry-II	6	21	16.94%
Coordination Compounds	1	3	2.42%
d-block & f-block Elements	2	8	6.45%
Qualitative Analysis	1	3	2.42%
Metallurgy	2	7	5.65%
Organic Chemistry-I	1	3	2.42%
General Organic Chemistry- II	1	3	2.42%
Organic Chemistry-II	11	39	31.45%
Aromatic Compounds	2	7	5.65%
Carbonyl compounds	3	10	8.06%
Organic Reaction Mechanism 4	1	4	3.23%
Stereoisomerism	1	3	2.42%
Biomolecules	1	4	3.23%
Grignard Reagent, Reduction, Oxidation & Hydrolysis	2	7	5.65%
Polymers	1	4	3.23%
Physical Chemistry-I	10	35	28.23%
Atomic Structure & Nuclear Chemistry	4	14	11.29%
Chemical Bonding	1	4	3.23%
Chemical Equilibrium	1	3	2.42%
Mole Concept	2	6	4.84%
Thermodynamics and Thermochemistry	1	4	3.23%
Gaseous State	1	4	3.23%
Physical Chemistry-II	4	12	9.68%
Chemical Kinetics	2	6	4.84%
Solution & Colligative Properties	1	3	2.42%
Surface Chemistry	1	3	2.42%
Grand Total	36	124	100.00%

MATHEMATICS ANALYSIS

Topic wise Allocation of Marks

MATHEMATICS			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Mathematics	36	124	100.00%
Algebra	1	3	2.42%
Binomial Theorem	1	3	2.42%
Complex Numbers	2	6	4.84%
Complex Numbers	2	6	4.84%
Coordinate Geometry	5	16	12.90%
Circle	4	12	9.68%
Ellipse	1	4	3.23%
Differential Calculus	5	18	14.52%
Functions	2	6	4.84%
Application of Derivatives	2	8	6.45%
Continuity & Derivability	1	4	3.23%
Integral Calculus	6	21	16.94%
Definite integration	5	17	13.71%
Differential equation	1	4	3.23%
Matrix & Determinants	4	15	12.10%
Matrices & Determinants	4	15	12.10%
Permutation & Combination	2	6	4.84%
Permutation & Combination	2	6	4.84%
Probability	2	7	5.65%
Probability	2	7	5.65%
Quadratic Equation	1	4	3.23%
Quadratic Equation	1	4	3.23%
Sequence & Series	1	3	2.42%
Sequence & Series	1	3	2.42%
Trigonometry	3	11	8.87%
Solution of Triangle	1	4	3.23%
Inverse Trigonometric function	1	3	2.42%
Trigonometric Ratio & identities	1	4	3.23%
Vector and 3D	4	14	11.29%
Vector	4	14	11.29%
Grand Total	36	124	100.00%