

JEE Main (January Attempt) 2020

(Memory Based)

9th Jan, 2nd Shift (2:30 pm – 5:30 pm)

A Detailed Analysis by Resonance

This is the second year that JEE Main exam is being conducted entirely in the computer-based mode and also the first time that JEE Main is being conducted by National Testing Agency (NTA).

More than 11.18 Lakh students are stated to register for the January Attempt of JEE Main 2020 Exam. A total of 9,21,261 candidates have registered for B.Tech or B.E (earlier called Paper I) and 1,38,409 have registered for B.Arch examination (which was earlier referred to as Paper II). This year, a Planning paper was also conducted and 59,003 students have registered for the examination.

On Jan 6th, B. Arch/B. Planning was conducted. From 7th Jan to 9th Jan, Engg. (B.E./B.Tech.) paper will be conducted in two shifts: First Shift – 9:30AM to 12:30PM & Second Shift – 2:30PM to 5:30PM daily.

This year NTA result will consist of four NTA Scores, for each of the three subjects (Mathematics, Physics, Chemistry) and the total in Paper-1 of JEE (Main)–2020 for the January attempt. These NTA scores will be calculated in terms of “**Normalization procedure based on Percentile Score**”.

The analysis below pertains to only Paper catering engineering aspirants.

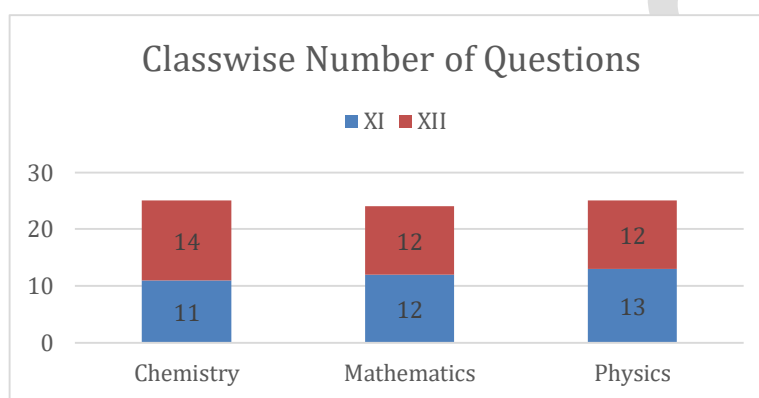
OVERALL MARKS DISTRIBUTION

The paper pattern was new compare to last Year. The paper had 75 questions each worth 4 marks. 25 questions was there in each PCM Subject. 20 questions of multiple choice type & 5 questions answers to be filled as numerical value. Subject wise each subject had 25 questions of 100 marks in total.

For each incorrect response, 1 mark was deducted from the total score. There was no negative marking for numerical value answer type of questions.

Although, it is memory based Resonance experts could figure out 74 out of 75.

Subject	Class 11		Class 12		Total Percentage	
	No of Questions	Total Marks	No of Questions	Total Marks	Class 11	Class 12
Chemistry	11	44	14	56	44%	56%
Mathematics	12	48	12	48	48%	48%
Physics	13	52	12	48	52%	48%
Grand Total	36	144	38	152	48.00%	50.67%

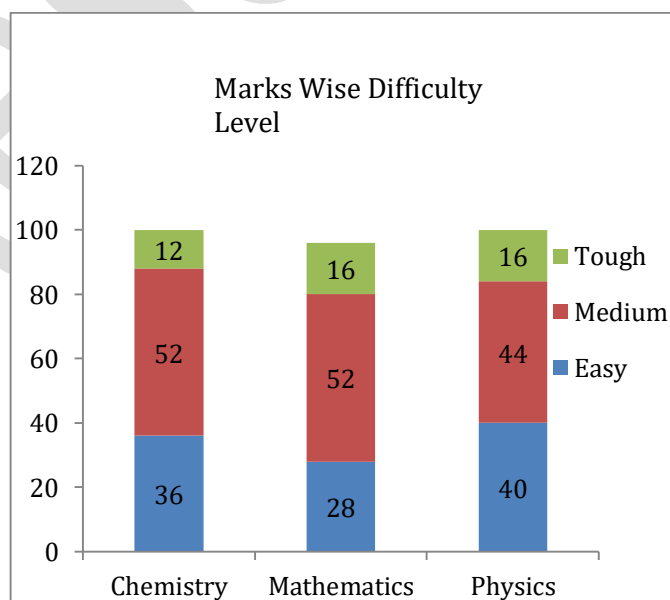
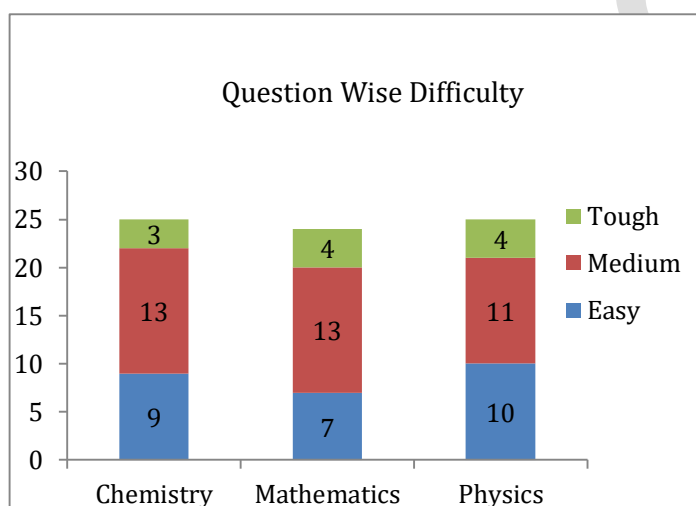


SUBJECT-WISE DIFFICULTY LEVEL ANALYSIS: NO OF QUESTIONS

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	9	36	13	52	3	12
Mathematics	7	28	13	52	4	16
Physics	10	40	11	44	4	16
Grand Total	26	104	37	148	11	44



Resonance experts feel that Chemistry and Mathematics paper was on tougher side as compared to Physics. Out of 296 marks, **104** marks paper can be considered of easy level, **148** marks can be considered of medium difficulty level and **44** marks can be considered to be of difficult level by Resonance Team.

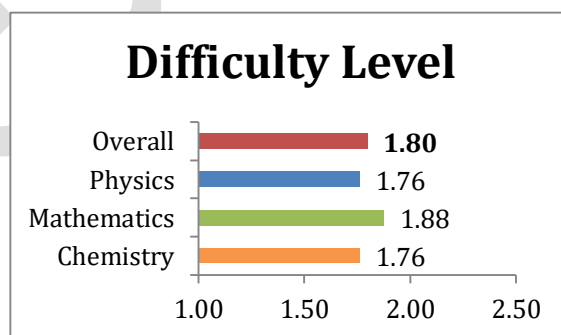
Overall, difficulty level of paper seemed to be moderate.

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	1.76
Mathematics	1.88
Physics	1.76
Overall	1.80



PHYSICS ANALYSIS

PHYSICS			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Physics	25	100	100.00%
Electrodynamics	5	20	20.00%
Current Electricity	1	4	4.00%
Electro Magnetic Field	2	8	8.00%
Alternating Current	1	4	4.00%
Electrostatics	1	4	4.00%
Heat & Thermodynamics	2	8	8.00%
KTG & Thermodynamics	2	8	8.00%
Mechanics	9	36	36.00%
Circular Motion	1	4	4.00%
Elasticity & Viscosity	1	4	4.00%
Rigid Body Dynamics	1	4	4.00%
Centre of Mass	2	8	8.00%
Rectilinear Motion & Vectors	1	4	4.00%
Gravitation	1	4	4.00%
Error and Measurement	1	4	4.00%
Surface Tension	1	4	4.00%
Modern Physics	6	24	24.00%
Atomic Physics	2	8	8.00%
Semiconductors	3	12	12.00%
Electromagnetic waves & communication	1	4	4.00%
Optics	2	8	8.00%
Wave Optics	1	4	4.00%
Geometrical Optics & Physical Optics	1	4	4.00%
SHM & Waves	1	4	4.00%
String Wave	1	4	4.00%

CHEMISTRY ANALYSIS

CHEMISTRY			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Chemistry	25	100	100.00%
Inorganic Chemistry-I	7	28	28.00%
Chemical Bonding	3	12	12.00%
p-block	1	4	4.00%
Environmental chemistry	1	4	4.00%
s-block	2	8	8.00%
Inorganic Chemistry-II	3	12	12.00%
Coordination Compounds	2	8	8.00%
d-block & f-block Elements	1	4	4.00%
Organic Chemistry-I	2	8	8.00%
General Organic Chemistry- II	1	4	4.00%
General Organic Chemistry-I	1	4	4.00%
Organic Chemistry-II	6	24	24.00%
Aromatic Compounds	1	4	4.00%
Biomolecules	1	4	4.00%
Organic Reaction Mechanism II	1	4	4.00%
Polymers	1	4	4.00%
Organic Reaction Mechanism I	1	4	4.00%
Carbonyl compounds	1	4	4.00%
Physical Chemistry-I	3	12	12.00%
Ionic Equilibrium	1	4	4.00%
Thermodynamics and Thermochemistry	1	4	4.00%
Mole Concept	1	4	4.00%
Physical Chemistry-II	4	16	16.00%
Chemical Kinetics	1	4	4.00%
Electrochemistry	1	4	4.00%
Surface Chemistry	1	4	4.00%
Solution & Colligative Properties	1	4	4.00%

MATHEMATICS ANALYSIS

MATHEMATICS			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Maths	24	96	100.00%
Binomial Theorem	2	8	8.33%
Binomial Theorem	2	8	8.33%
Complex Numbers	1	4	4.17%
Complex Numbers	1	4	4.17%
Coordinate Geometry	3	12	12.50%
Circle	1	4	4.17%
Ellipse	1	4	4.17%
Parabola	1	4	4.17%
Differential Calculus	4	16	16.67%
Limit, Continuity & Differentiability	1	4	4.17%
Sets & Relation	1	4	4.17%
Methods of Differentiation	2	8	8.33%
Integral Calculus	4	16	16.67%
Definite integration	1	4	4.17%
Differential equation	1	4	4.17%
Indefinite integration	1	4	4.17%
Area under curve	1	4	4.17%
Matrix & Determinants	2	8	8.33%
Matrices & Determinants	2	8	8.33%
Probability	1	4	4.17%
Probability	1	4	4.17%
Sequence & Series	3	12	12.50%
Sequence & Series	3	12	12.50%
Vector and 3D	2	8	8.33%
Vector	2	8	8.33%
Mathematical Reasoning	1	4	4.17%
Mathematical Reasoning	1	4	4.17%
Quadratic Equation	1	4	4.17%
Quadratic Equation	1	4	4.17%