

JEE Main 2021 (February Session)

25th February, 2nd Shift (3:00 PM – 6:00 PM)

A Detailed Analysis by Resonance (Memory Based)

Disclaimer: Although students had to answer only 75 questions in exam, Analysis below pertains to all the 90 Questions

JEE Main 2021 exam is being conducted entirely in the computer-based mode except that the Drawing Test for B.Arch. was held in "Pen & Paper" (offline) mode and by National Testing Agency (NTA).

Nearly 21.50 lakh students are stated to register for all the four Sessions of JEE Main 2021 Exam. Whereas, a total of 6, 61, 761 candidates have registered for the February Session of JEE Main 2021. This amount of registration is making JEE Main 2021 one of the biggest computer based competitive exams for undergraduate admissions. This year JEE Main 2021 is being conducted in total of 13 languages including English. In which nearly 1, 49, 621 candidates have opted for Indian languages.

This year NTA has announced four sessions for JEE Main 2021 exam instead of two. The Paper 1 exam will be held in February, March, April and May. However, Paper 2A and Paper 2B (B. Arch & B. Planning) will be held only twice a year (February & May 2021).

On Feb 23rd, B. Arch (Paper 2a) /B. Planning (Paper 2b) was conducted. From 24th Feb to 26th Feb, Engg. (B.E./B.Tech.) Paper are being conducted in two shifts: First Shift – 9:00AM to 12:00PM & Second Shift – 3:00PM to 6:00PM 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)–2021 for the February Session. These NTA scores will be calculated in terms of "Normalization procedure based on Percentile Score".

The analysis below pertains to only "Paper 1" of JEE Main 2021 catering engineering aspirants.

OVERALL MARKS DISTRIBUTION

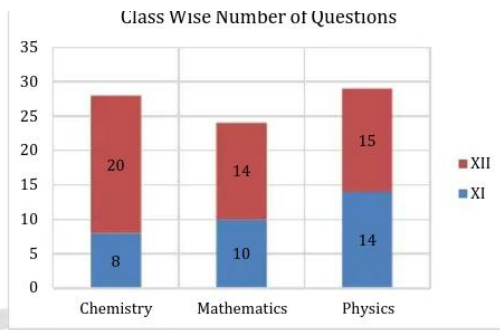
As per new paper pattern, JEE Main 2021 Paper 1 had 90 questions each worth 4 marks. There was 30 questions in each PCM Subject, 20 questions of multiple choice type & 10 questions of numerical value answer type out of which 5 questions need to be answered.

Hence, 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.

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Although, it is memory based questions analysis resonance experts could figure out 80 out of 90 questions. We could find 29 questions in physics, 24 in mathematics and 28 in chemistry.

Subject	Class 11		Class 12		Total Percentage	
	No of Questions	Total Marks	No of Questions	Total Marks	Class 11	Class 12
Chemistry	8	32	20	80	27%	67%
Mathematics	10	40	14	56	33%	47%
Physics	14	56	15	60	47%	50%
Grand Total	32	128	49	196	36%	54%



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.

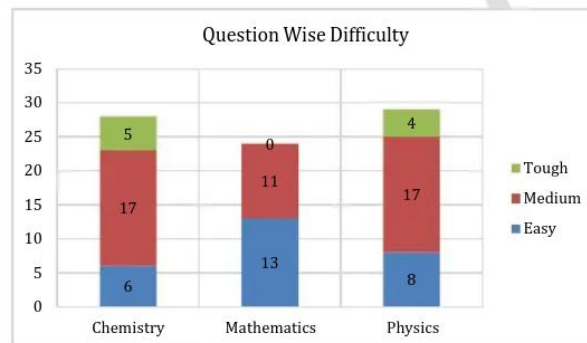
- 1: Easy
- 2: Moderate
- 3: Difficult

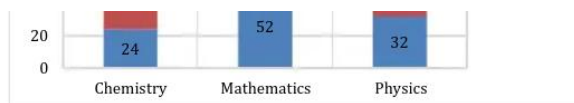
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Subject	Easy Level		Medium Level		Difficult Level	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Chemistry	6	24	17	68	5	20
Mathematics	13	52	11	44	0	0
Physics	8	32	17	68	4	16
Grand Total	27	108	45	180	9	36





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Resonance experts feel that chemistry and physics were on tougher side compare to that of mathematics paper. Out of **324** marks (*for 81 questions), **108** marks paper can be considered of easy level, **180** marks can be considered of medium difficulty level and **36** marks can be considered to be of difficult level by Resonance Team.

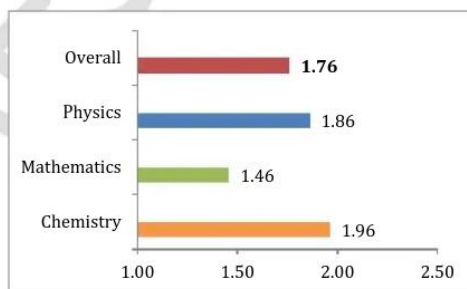
Overall, difficulty level of paper seemed to be easy to moderate.

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	1.96
Mathematics	1.46
Physics	1.86
Overall	1.76



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PHYSICS			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Physics	29	116	97%
Electrodynamics	7	28	23%
Capacitance	1	4	3%
Current Electricity	1	4	3%
Electro Magnetic Field	1	4	3%
Electrostatics	3	12	10%
Alternating Current	1	4	3%
Heat & Thermodynamics	3	12	10%
KTG & Thermodynamics	3	12	10%
Mechanics	6	24	20%
Rigid Body Dynamics	1	4	3%
Rectilinear Motion & Vectors	2	8	7%
Gravitation	1	4	3%
Unit & Dimension	1	4	3%
Work, Power & Energy	1	4	3%
Modern Physics	8	32	27%
Semiconductors	3	12	10%
Electromagnetic waves & communication	1	4	3%
Modern Physics	4	16	13%
Optics	1	4	3%
Wave Optics	1	4	3%
SHM & Waves	4	16	13%
SHM	3	12	10%
String Wave	1	4	3%

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CHEMISTRY ANALYSIS

CHEMISTRY			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Chemistry	28	112	93%
Inorganic Chemistry-I	3	12	10%
Chemical Bonding	1	4	3%
s-block	1	4	3%
p-block (15-16 Grp)	1	4	3%
Inorganic Chemistry-II	7	28	23%
Coordination Compounds	2	8	7%
Metallurgy	2	8	7%
d-block & f-block Elements	1	4	3%
p-Block 17-18 Group	1	4	3%
Qualitative Analysis	1	4	3%
Organic Chemistry-I	1	4	3%
General Organic Chemistry- II	1	4	3%
Organic Chemistry-II	7	28	23%
Biomolecules	1	4	3%

Chemistry in everyday Life	1	4	3%
Aromatic Compounds	2	8	7%
Carbonyl compounds	1	4	3%
Amines	1	4	3%
Carboxylic Acid and their Derivatives	1	4	3%
Physical Chemistry-I	5	20	17%
Thermodynamics and Thermochemistry	2	8	7%
Equivalent Concept	1	4	3%
Ionic Equilibrium	2	8	7%
Physical Chemistry-II	5	20	17%
Chemical Kinetics	1	4	3%
Electrochemistry	1	4	3%
Solid state	1	4	3%
Surface Chemistry	1	4	3%
Solution & Colligative Properties	1	4	3%

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MATHEMATICS ANALYSIS

MATHEMATICS			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Maths	24	96	80%
Binomial Theorem	2	8	7%
Binomial Theorem	2	8	7%
Complex Numbers	1	4	3%
Complex Numbers	1	4	3%
Coordinate Geometry	3	12	10%
Ellipse	1	4	3%
Hyperbola	2	8	7%
Differential Calculus	6	24	20%
Limit, Continuity & Differentiability	2	8	7%
Functions	2	8	7%
Tangent & Normal	2	8	7%
Integral Calculus	3	12	10%
Definite integration	1	4	3%
Differential equation	1	4	3%
Indefinite integration	1	4	3%
Permutation & Combination	1	4	3%
Permutation & Combination	1	4	3%
Probability	1	4	3%
Probability	1	4	3%
Sequence & Series	1	4	3%
Sequence & Series	1	4	3%
Mathematical Reasoning	1	4	3%
Mathematical Reasoning	1	4	3%
Quadratic Equation	1	4	3%
Quadratic Equation	1	4	3%
Trigonometry	2	8	7%
Inverse Trigonometric function	1	4	3%
Trigonometric Ratio & identities	1	4	3%
Matrix & Determinants	2	8	7%
Matrices & Determinants	2	8	7%

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