



**JEE
MAIN
March
2021**

ANSWER KEY

JEE | NEET | Foundation

MOTION™

25000+
SELECTIONS SINCE 2007

NTA (National Testing Agency) conducted the JEE (Joint Entrance Examination) Main from 16th March 2021 to 18th March 2021. The examination took place in two shifts. First shift from 9:00 AM to 12:00 PM and Second shift from 3:00 PM to 6:00 PM.

According to our top most JEE faculty, the physics questions were more conceptual, and they were NCERT based. In Chemistry, the paper's overall difficulty was moderate, and most of the questions were conceptually based. In Mathematics, the difficulty of the paper was moderate, but most questions involved lengthy calculations.

Paper Format

The JEE Main exam 2021 was conducted online (Computer Based Test- CBT), and the paper pattern was different from last year. This year, each subject comprised 30 questions, out of which 20 were MCQs with a single correct answer and 10 were numerical type, and out of 10, only five have to be done. The question paper of JEE Main 2021 comprised of 60 multiple choice questions, 20 each in Physics, Chemistry and Mathematics, each carrying a reward of 4 marks for the correct answer and deduction of 1 mark for every incorrect answer, and 30 numerical questions ten each in Physics, Chemistry and Mathematics each carrying a reward of 4 marks for the correct answer and NO DEDUCTION for incorrect answer. The JEE Main question paper 2021 was available in 13 different languages, including English, Hindi, Urdu, and eight regional languages.

Overall Difficulty Analysis

In the JEE MAIN exam, candidates felt that the overall paper was relatively more comfortable than last year's paper. Overall, class 11 comprised 42 percent, while the rest of the 58 percent of questions are from class 12. The table below shows the distribution of questions from class 11 and 12 and their segregation based on difficulty, medium and easy.

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Analysis for Physics-

Topic	Class	Easy	Medium	Difficult	Total
General & Experimental	11th	3	3	-	6
Mechanics	11th	20	44	6	70
Thermal Physics	11th	7	8	-	15
Electricity & Magnetism	12th	15	30	4	49
Optics	12th	4	6	1	11
Modern Physics	12th	7	8	-	15
Electronics	12th	4	4	-	8
Communication	12th	4	2	-	6
Total					180

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Analysis for Chemistry –

Topic	Class	Easy	Medium	Difficult	Total
Physical Chemistry	11th	5	29	3	37
	12th	5	13	4	22
Inorganic chemistry	11th	6	7	1	14
	12th	9	23	8	40
Organic Chemistry	11th	4	18	-	22
	12th	3	22	-	25
Miscellaneous	11th	-	-	-	0
	12th	6	14	-	20
Total					180

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Analysis for Mathematics –

Topic	Class	Easy	Medium	Difficult	Total
Algebra	11 th	13	11	2	26
	12 th	9	14	6	29
Coordinate Geometry	11 th	8	7	3	18
	12 th	6	11	7	24
Differential Calculus	12 th	8	16	3	27
Integral Calculus	12 th	4	15	5	24
Trigonometry	11 th	1	3	-	4
	12 th	1	3	2	6
Vector	12 th	1	5	1	7
Miscellaneous	11 th	4	9	2	15
	12 th	-	-	-	0
Total					180

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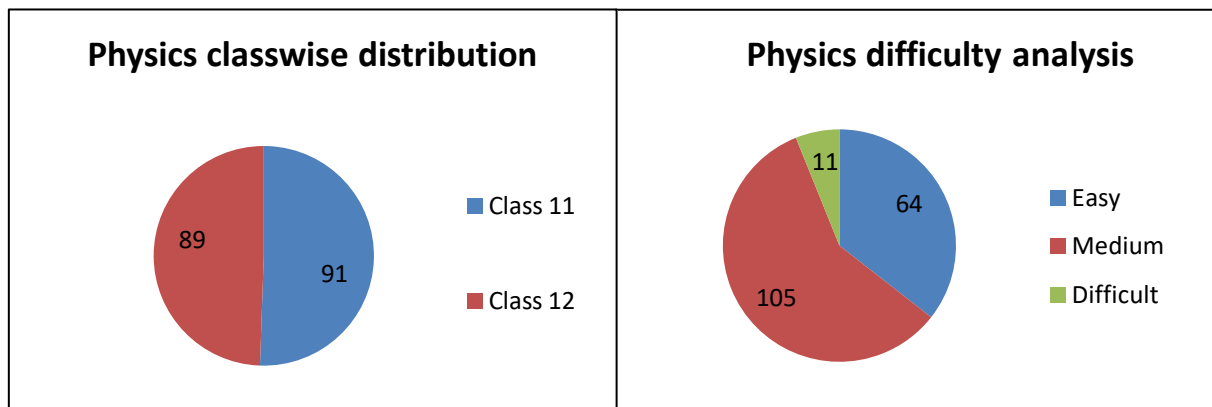
It was observed that the paper's overall difficulty was more comfortable than last year, where physics was easier and NCERT based, the chemistry was of moderate level, and mathematics was of moderate level but contained lengthy calculations. Based on the above analysis, we feel that the paper was easy than the last year. Therefore the cut-off should increase.

Category	2018	2019	2020	2021 (Expected)
General	74	89	90	90+
OBC	45	74	72	75
SC	29	54	50	52
ST	24	44	39	40

Subject wise analysis

We present in the following pages a break up of questions for each of the subjects across topics, classes and difficulty.

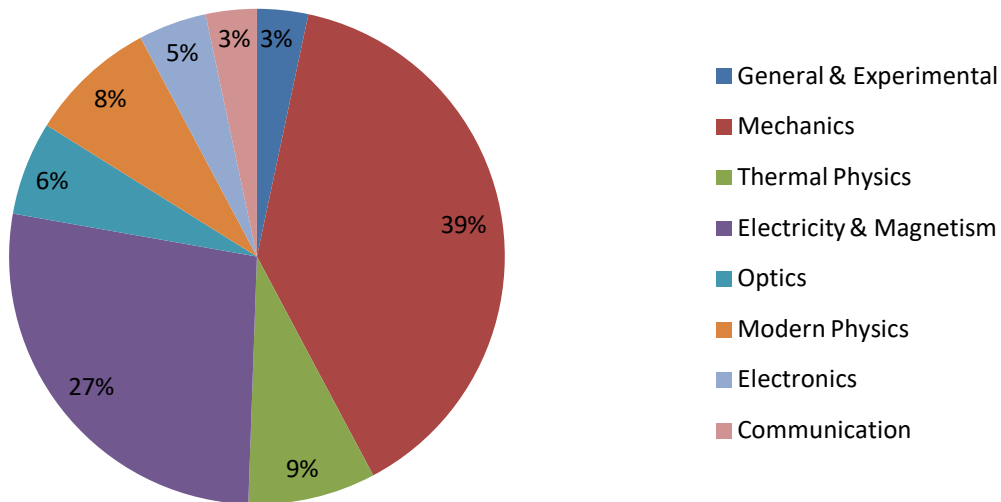
Physics



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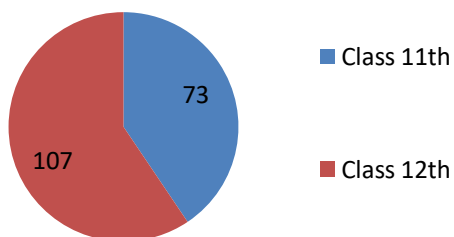
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Physics topic wise distribution

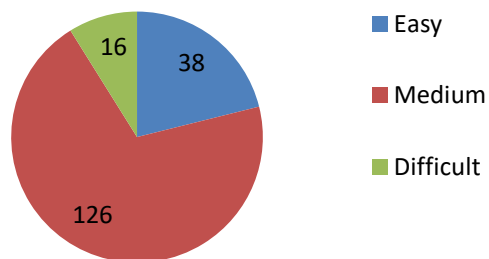


Chemistry

Chemistry Class wise distribution



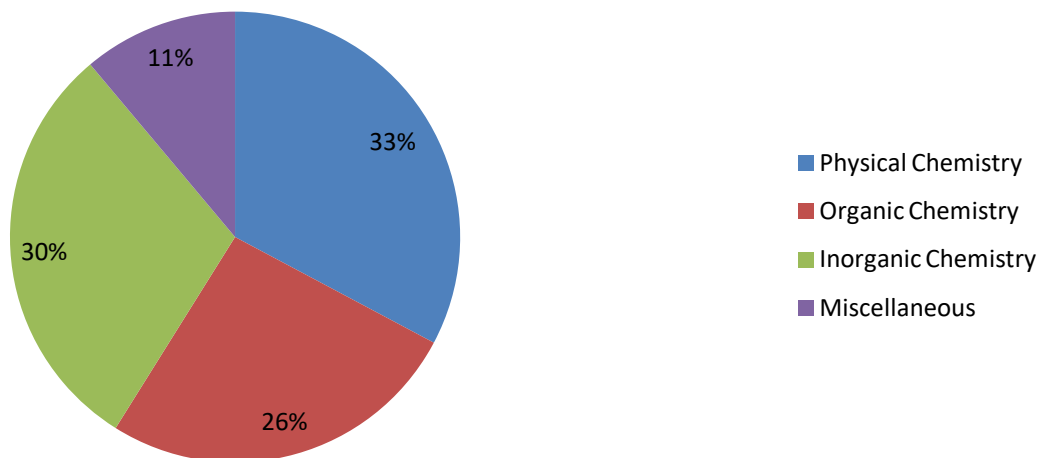
Chemistry Difficulty wise analysis



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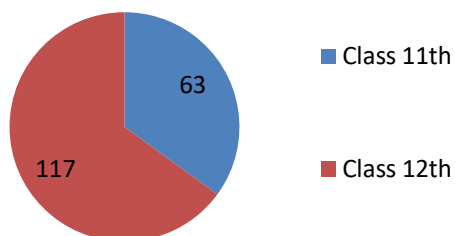
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Chemistry topic wise distribution

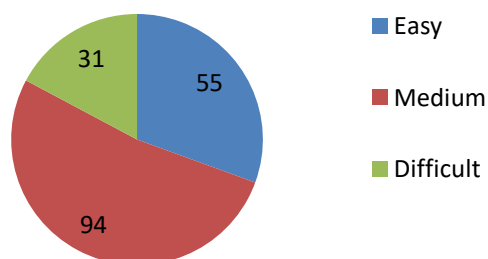


Mathematics

Mathematics Class wise distribution



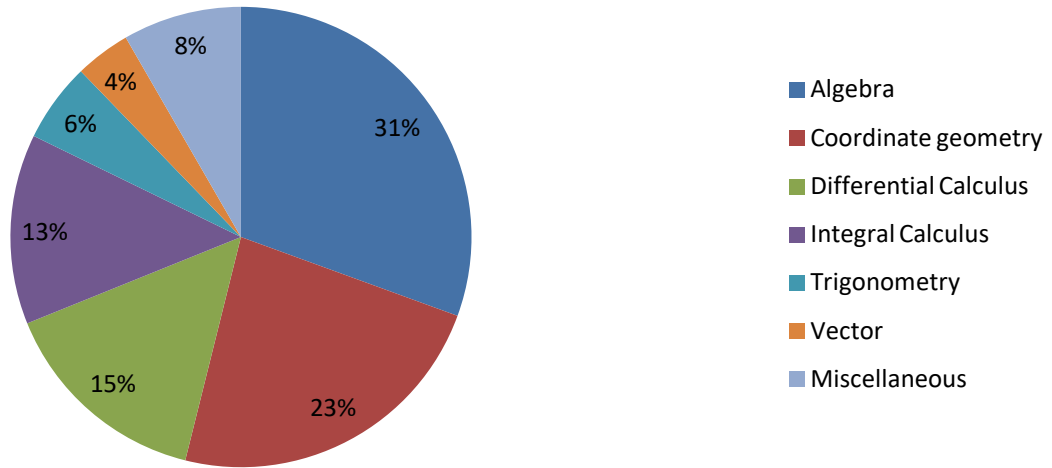
Mathematics Difficulty wise analysis



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Mathematics topic wise distribution



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