

NTA (National Testing Agency) conducted the JEE (Joint Entrance Examination) Main from 23rd February 2021 to 26th February 2021. On 23rd February, The examination took place in two shifts. First, the shift from 9:00 AM to 12:00 PM and Second shift from 3:00 PM to 6:00 PM.

According to our topmost 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 40 percent, while the rest of the 60 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.

Analysis for Physics-

Topic	Class	Easy	Medium	Difficult	Total
General & Experimental	11th	5	4	-	9
Mechanics	11th	34	29	-	63
Thermal Physics	11th	11	5	-	16
Electricity & Magnetism	12th	27	17	-	44
Optics	12th	10	2	-	12
Modern Physics	12th	12	5	-	17
Electronics	12th	11	1	-	12
Communication	12th	3	4	-	7
Total					180

Analysis for Chemistry –

Topic	Class	Easy	Medium	Difficult	Total
Physical Chemistry	11th	10	29	3	42
	12th	7	12	5	24
Inorganic chemistry	11th	10	3	3	16
	12th	13	15	10	38
Organic Chemistry	11th	2	8	0	10
	12th	9	31	1	41
Miscellaneous	11th	-	-	-	0
	12th	4	3	2	9
Total					180

Analysis for Mathematics –

Topic	Class	Easy	Medium	Difficult	Total
Algebra	11 th	10	13	7	30
	12 th	8	13	9	30
Coordinate Geometry	11 th	4	5	-	9
	12 th	10	7	3	20
Differential Calculus	12 th	7	21	3	31
Integral Calculus	12 th	10	17	4	31
Trigonometry	11 th	-	5	-	5
	12 th	-	4	1	5
Vector	12 th	3	3	-	6
Miscellaneous	11 th	6	4	3	13
	12 th	-	-	-	0
Total					180

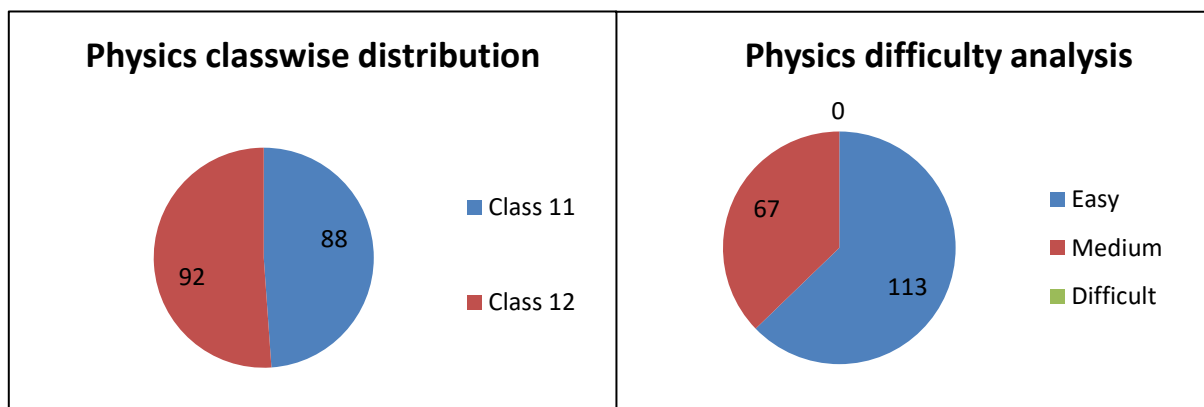
It was observed that the paper's overall difficulty was more comfortable than last year, where physics was easier and NCERT based, the chemistry was of moderate level, and mathematics was of moderate level but contained lengthy calculations. Based on the above analysis, we feel that the paper was easy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

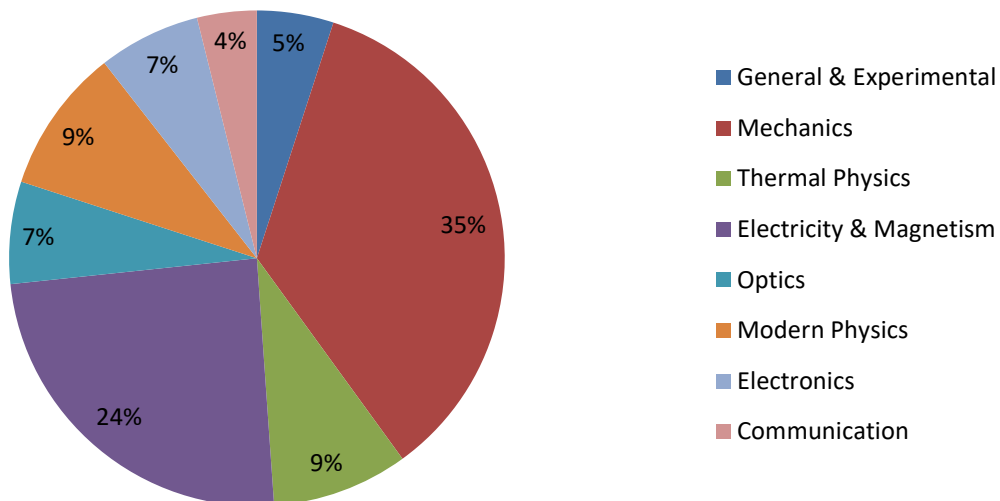
Subject wise analysis

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

Physics

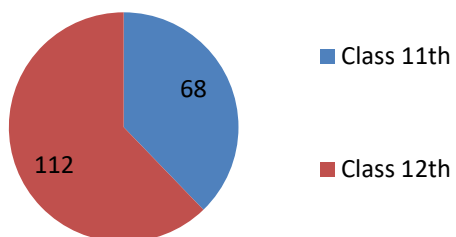


Physics topic wise distribution

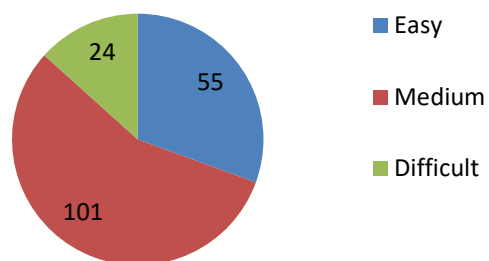


Chemistry

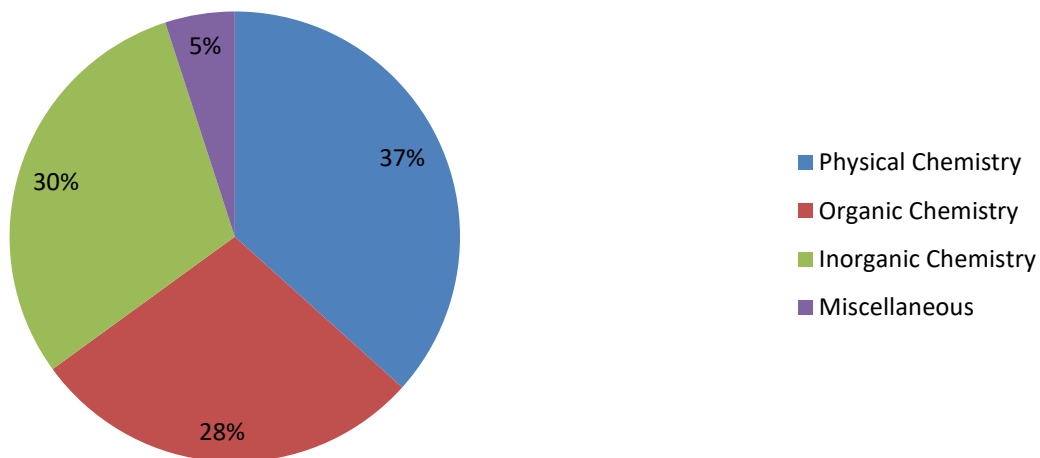
Chemistry Class wise distribution



Chemistry Difficulty wise analysis

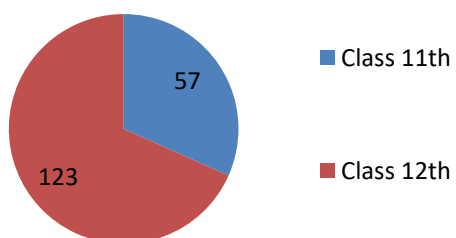


Chemistry topic wise distribution

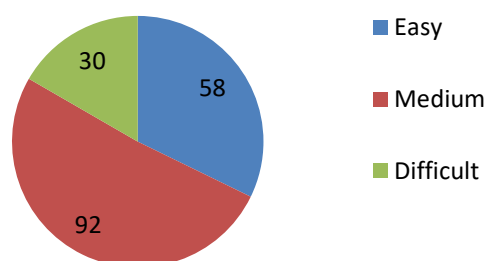


Mathematics

Mathematics Class wise distribution



Mathematics Difficulty wise analysis



Mathematics topic wise distribution

