

JEE Main 2019

Paper Analysis Topicwise (April attempt)



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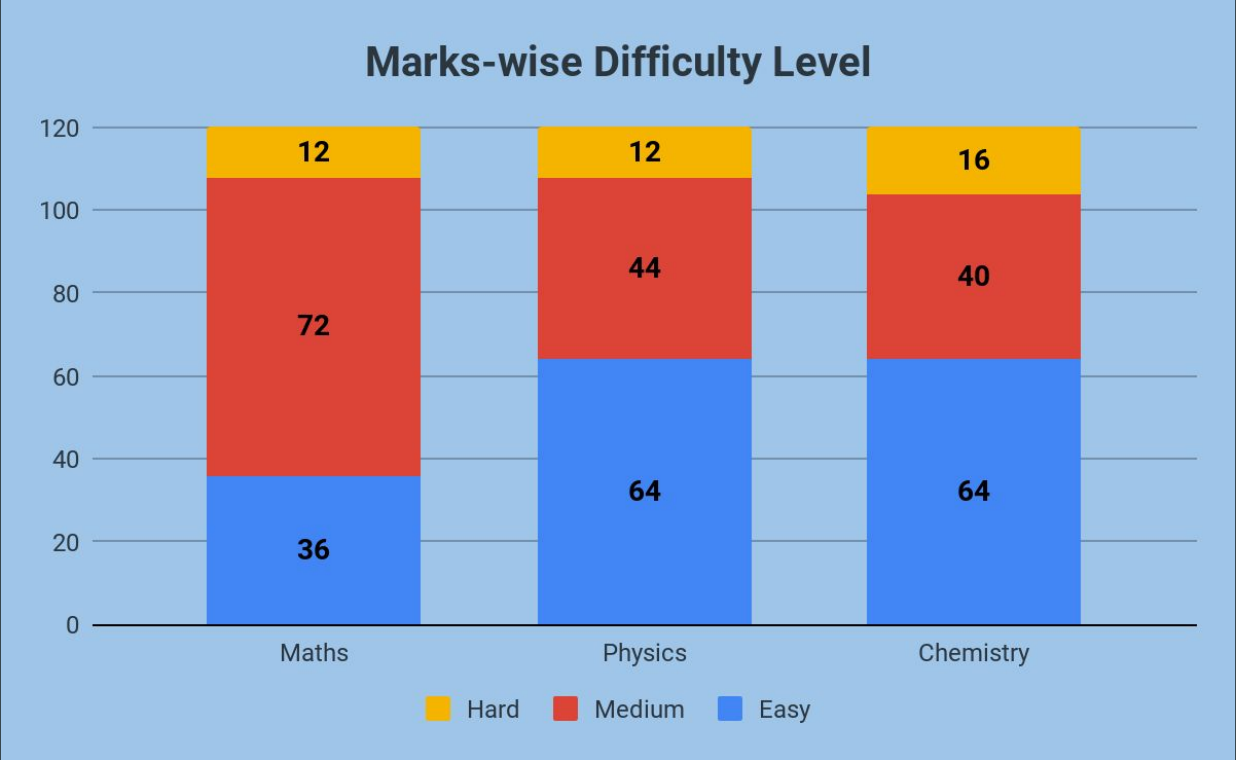
JEE Main 2019 Paper (April Session)

Exam Date	7, 8, 9, 10 and 12 April
Exam Mode	Computer-Based Online Test
Exam Paper and Duration	2 papers (Paper 1 and Paper 2) of 3 hours each
Subjects	Physics, Chemistry, Maths
Total Marks	360 Marks
Question Type	Multiple choice single correct answer
For correct Answers	+4 marks
For incorrect Answers	-1 mark

JEE Main 2019 (April Attempt) Overall Difficulty Analysis

Subject	Easy	Moderate	Tough	Total
	No. of Questions	No. of Questions	No. of Questions	
Physics	54	56	10	120
Chemistry	70	34	16	120
Maths	30	78	12	120
Grand Total	154	168	38	360

JEE Main 2019 (April Attempt) Marks-wise Difficulty Level



JEE Main 2019 (April Attempt): Expert's Viewpoint

- Here is a summary of the difficulty level analysis given by experts.

Subjects	Difficulty Level
Physics	Difficult with tricky questions.
Chemistry	Comparatively easy and scoring.
Maths	Was moderate to difficult with the majority of the questions being lengthy.

JEE Main 2019 Paper 1 Analysis: Physics

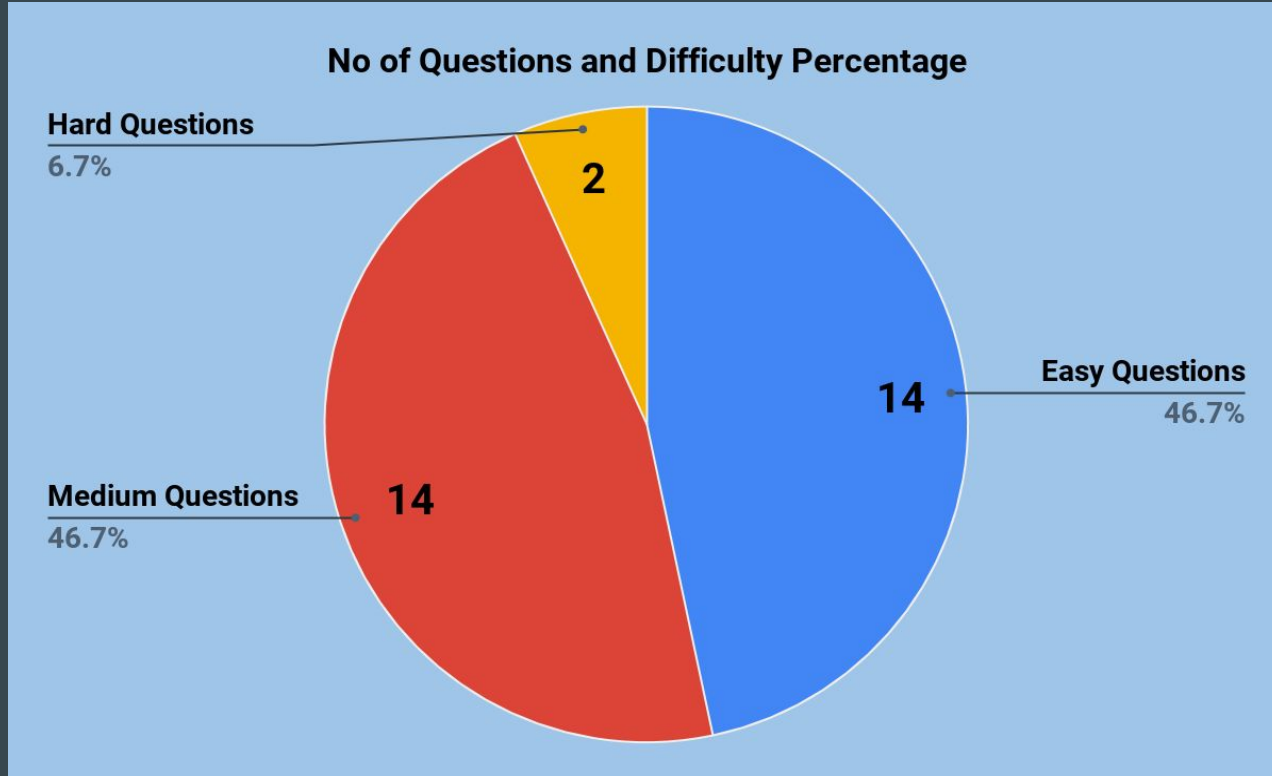
- Compared to Maths and Chemistry, **Physics** was the **toughest section** in JEE Main 2019 paper.
- Consisted of **tricky questions** that further required more logical and reasoning skills.
- Most of the questions were set from **Electromagnetism and Mechanics**, few questions from Modern Physics, Optics and Thermodynamics. Single question from SHM and Waves.

Subject	Class 11		Class 12		Total Percentage	
	No. of Questions	Total Marks	No. of Questions	Total Marks	Class 11	Class 12
Physics	13	48	17	68	40 %	57%

Topic wise Question Breakup in Physics

Topics	No of Questions	Weightage of Marks
Electromagnetics Induction; AC	1	4
Solids and Fluids	1	4
Waves	1	4
Work, Power and Energy	1	4
Gravitation	1	4
Simple Harmonic Motion	1	4
Unit, Dimension and Vector	1	4
Kinematics	1	4
Laws of motion	1	4
Centre Of Mass, Impulse and Momentum	1	4
Rotation	1	4
Magnetics	2	8
Heat and Thermodynamics	3	12
Current Electricity	3	12
Electrostatics	3	12
Optics	3	12
Modern Physics	5	20
Total	30	120

JEE Main 2019 Paper 1 Analysis: Physics Section



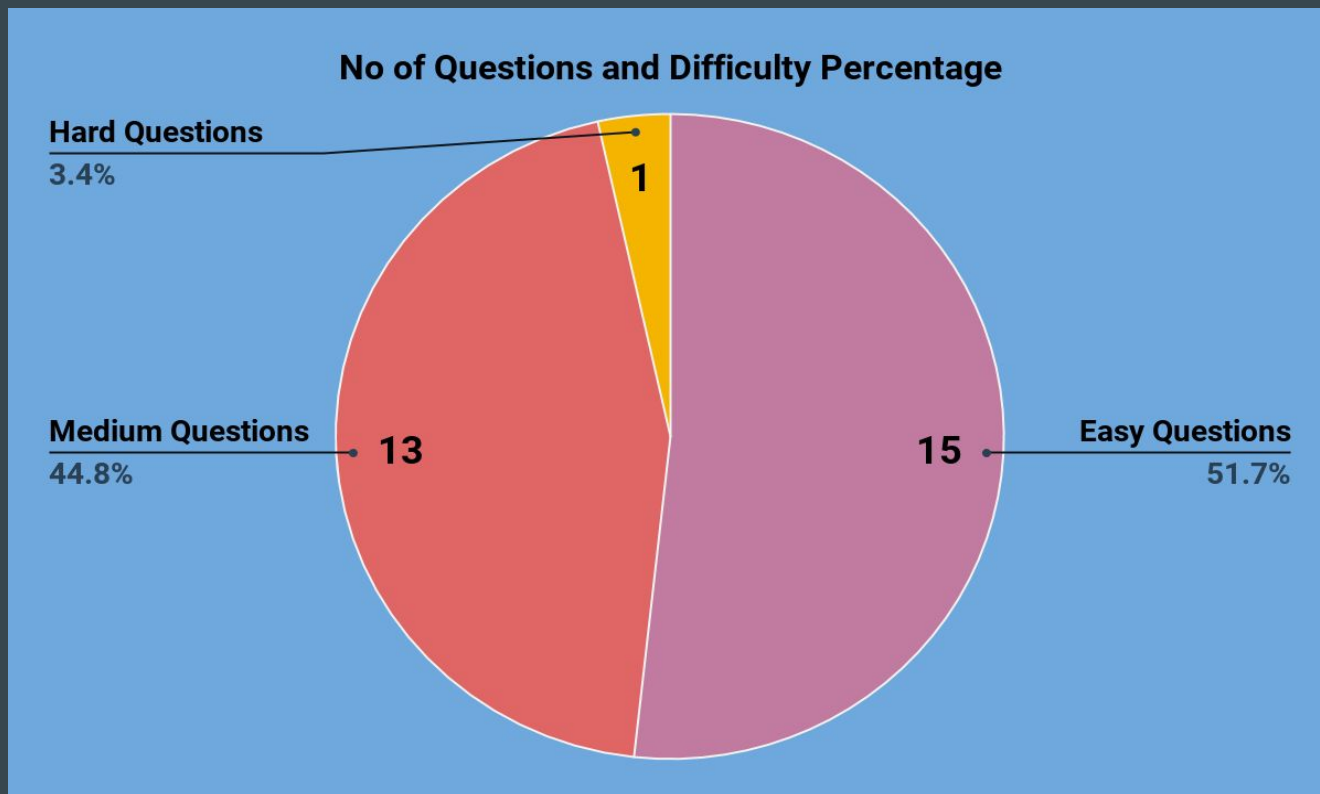
JEE Main 2019 Paper 1 Analysis: Chemistry

- Chemistry section was the **easiest and scoring** section among all the three sections.
- There was **equal weightage** given to inorganic, physical and organic chemistry.
- **Class 12** was given more importance where more questions were asked compared to class 11 syllabus.
- **Majority of the questions** were set from **Physical Chemistry**. Mixed questions from Organic chemistry and Inorganic chemistry.

Subject	Class 11		Class 12		Total Percentage	
	No. of Questions	Total Marks	No. of Questions	Total Marks	Class 11	Class 12
Chemistry	14	52	16	60	43 %	50%

Topics	No of Questions	Weightage of Marks
Electrochemistry	1	4
General Organic Chemistry	1	4
Stereochemistry	1	4
Carbohydrates, Amino acid and Polymers	1	4
Alkyl Halides	1	4
Carboxylic Acid and their Derivatives	1	4
Aromatic Compounds	1	4
Redox Reaction	1	4
Mole Concept	1	4
Solution and Colligative Properties	1	4
Hydrocarbon	1	4
Chemical Kinetics	1	4
Solid-State And Surface Chemistry	2	8
Thermodynamics And Gaseous State	2	8
Chemical Bonding	2	8
Chemical And Ionic Equilibrium	2	8
Atomic Structure	2	8
Nuclear Chemistry And Environment	2	8
The periodic table and Representative Elements	3	12
Transition Elements and Coordination Chemistry	3	12
Total	30	120

JEE Main 2019 Paper 1 Analysis: Chemistry Section



JEE Main 2019 Paper 1 Analysis: Maths Section

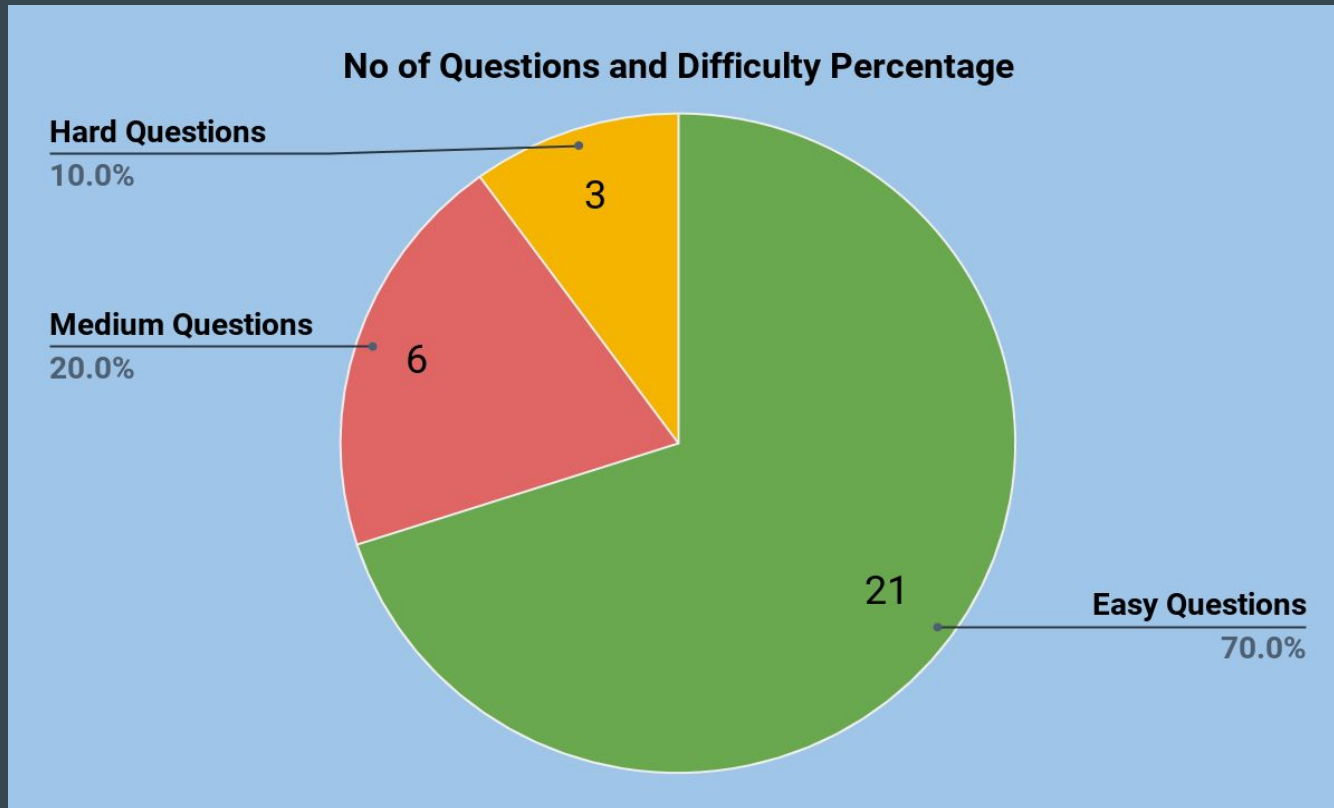
- The questions that were asked in the mathematics section was surprisingly on a **moderate level**.
- Questions involved a few **calculations** which took a bit longer time to solve and attempt all the questions.
- Greater number of the questions were set from Algebra, Coordinate Geometry, and Calculus. Few questions were based on Probability, Mathematical Reasoning and Statistics.

Subject	Class 11		Class 12		Total Percentage	
	No. of Questions	Total Marks	No. of Questions	Total Marks	Class 11	Class 12
Maths	14	52	16	64	43 %	53%

Topic wise Question Breakup in Maths

Topics	No of Questions	Weightage of Marks
Sets, Relation and Function	1	4
Sequences and Series	1	4
Binomial Theorem and Its Application	1	4
Differential Equation	1	4
Differential Calculus	1	4
Permutations and Combinations	1	4
Trigonometry	1	4
Mathematical Reasoning	1	4
Statics and Dynamics	1	4
Statistics and Probability	2	8
Matrices and Determinants	2	8
Vector Algebra	2	8
Three Dimensional Geometry	2	8
Complex numbers and Quadratic Equation	2	8
Limits, Continuity and Differentiability	3	12
Integral Calculus	3	12
Coordinate Geometry	5	20
Total	30	120

JEE Main 2019 Paper 1 Analysis: Maths Section



Important Topics Asked in JEE Main 2019 Paper: Physics

- Electrostatics
- Current Electricity
- Photoelectric Effect
- Electromagnetic Waves
- Electrodynamics
- Heat & Thermodynamics
- Mechanics
- Modern Physics
- Optics
- SHM & Waves

Chemistry

- Solutions and Colligative Properties
- Chemical Thermodynamics
- General Principles and Metallurgy
- Nuclear and Surface Chemistry
- Practical and Environmental Chemistry
- d-block & f-block Elements
- Mole Concept
- Coordination Compounds
- Periodic Table and Periodicity in Properties
- Chemical Bonding

Maths

- Indefinite Integration
- Definite Integration
- Complex Numbers
- Matrices and Determinants
- Three Dimensional Geometrical System
- Point and Straight Line
- Binomial Theorem
- Application of Derivatives
- Probability
- Statistics

JEE Main Paper Analysis: Students Feedback

As per the feedback given by the candidates who appeared for the exam, the overall paper analysis is as follows:

Most Difficult Section	Physics
Moderate Section	Maths (Lengthy)
Easiest Section	Chemistry (NCERT based questions)
Overall	Moderate (Quality questions and mostly concept based)

JEE Main 2019 Cutoff

Category	Total NTA Score Cutoff
Common Rank List (CRL)	89.75
GEN-EWS	78.21
Other Backward Classes (OBC-NCL)	74.31
Scheduled Caste (SC)	54.01
Scheduled Tribe (ST)	44.33
PwD	0.11

Thank You!

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