

IIT JEE

2011

TOPIC WISE ANALYSIS



IIT JEE 2011 Paper

Exam Conducting Body	IIT Kanpur
Exam Date	10th April, 2011
Exam Mode	Computer-Based Online Test
Exam Paper and Duration	2 papers (Paper 1 and Paper 2) of 3 hours each
Subjects or Sections	Physics, Chemistry, Maths
Total Questions	69 Questions in paper I and 60 questions in paper II
Total Marks	480 Marks
Question Types	MCQs, Numerical Problems, Comprehension, Match the Column

IIT JEE 2011 Paper Marking Scheme

The marking scheme that was followed in Paper I was in the following manner:

Paper I				
Sections	Question Pattern	Marking Scheme	No. of Q.	Total Marks
1	Single Answer Type	+3 for correct, -1 Negative Marking	7	21
2	Multiple Answer Type	+4 for Correct, No Negative Marking	4	16
3	Paragraph Type	+3 for Correct, -1 Negative Marking	5	15
4	Integer Type	+4 for Correct, No Negative Marking	7	28

IIT JEE 2011 Paper Marking Scheme

The marking scheme that was followed in Paper II was as follow:

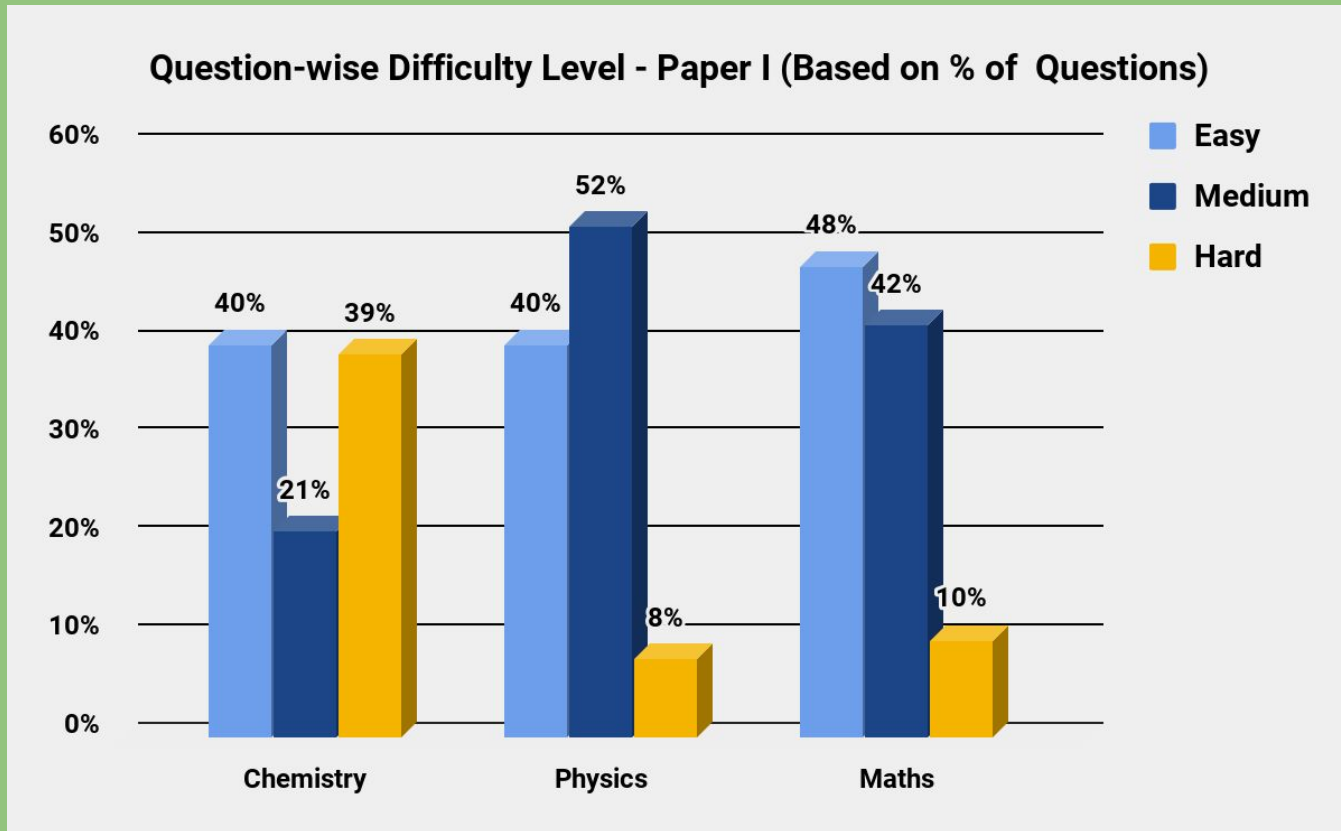
Paper II				
Sections	Question Pattern	Marking Scheme	No. of Q.	Total Marks
1	Single Answer Type	+3 for correct, -1 Negative Marking	8	24
2	Multiple Answer Type	+4 for Correct, No Negative Marking	4	16
3	Integer Type	+4 for Correct, No Negative Marking	6	24
4	Matrix Match Type	+8 for Correct, No Negative Marking	2	16

IIT JEE 2011: Expert's Viewpoint

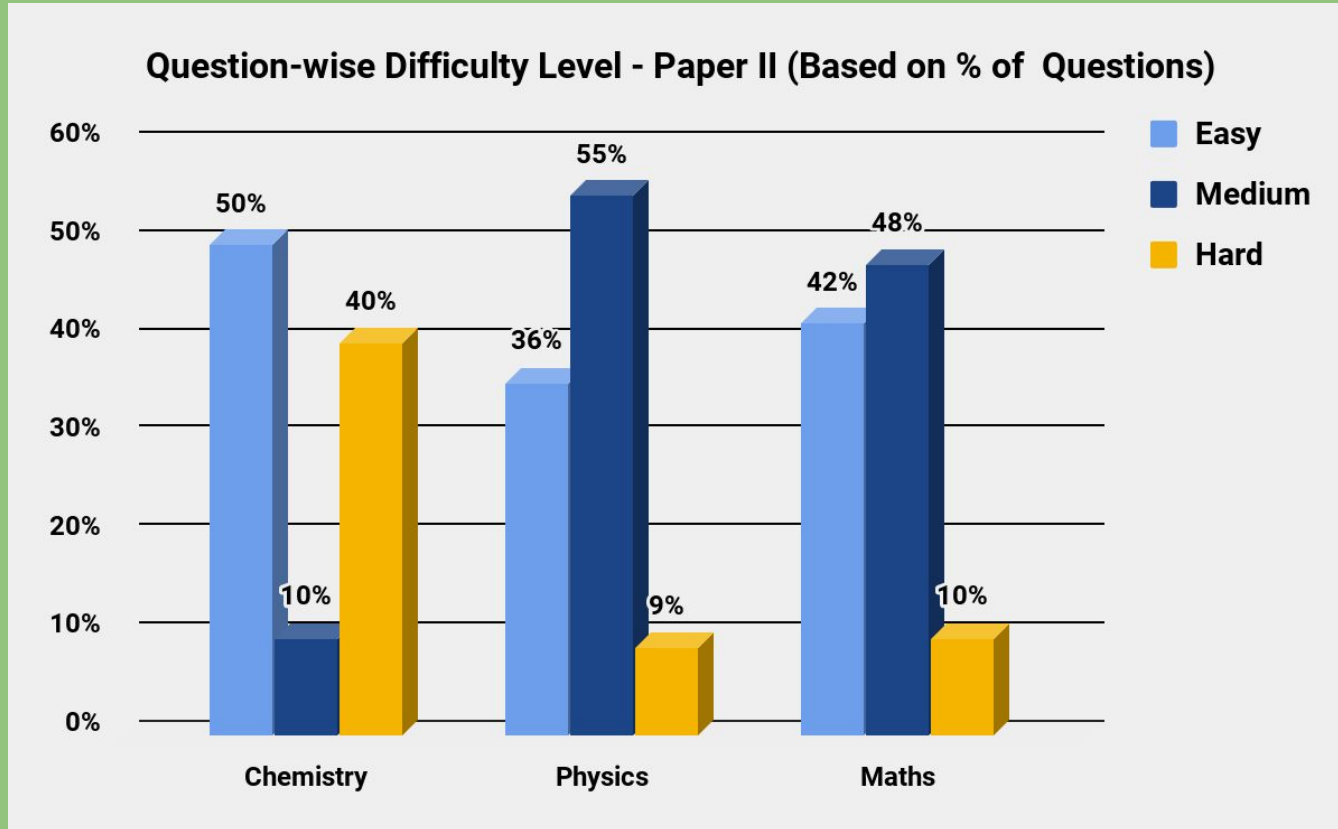
The difficulty of the two papers is described below as per expert's analysis:

Subjects	Difficulty Level
Physics	Paper 1 was on a moderate to difficult level but paper 2 was easier.
Chemistry	Chemistry section could be treated as NCERT level. Physical and Inorganic part were little tricky.
Maths	Talking about Maths, both the papers were above average.
Overall	The IIT JEE 2011 paper was moderately set but at the same time challenging in some parts. Well balanced papers.

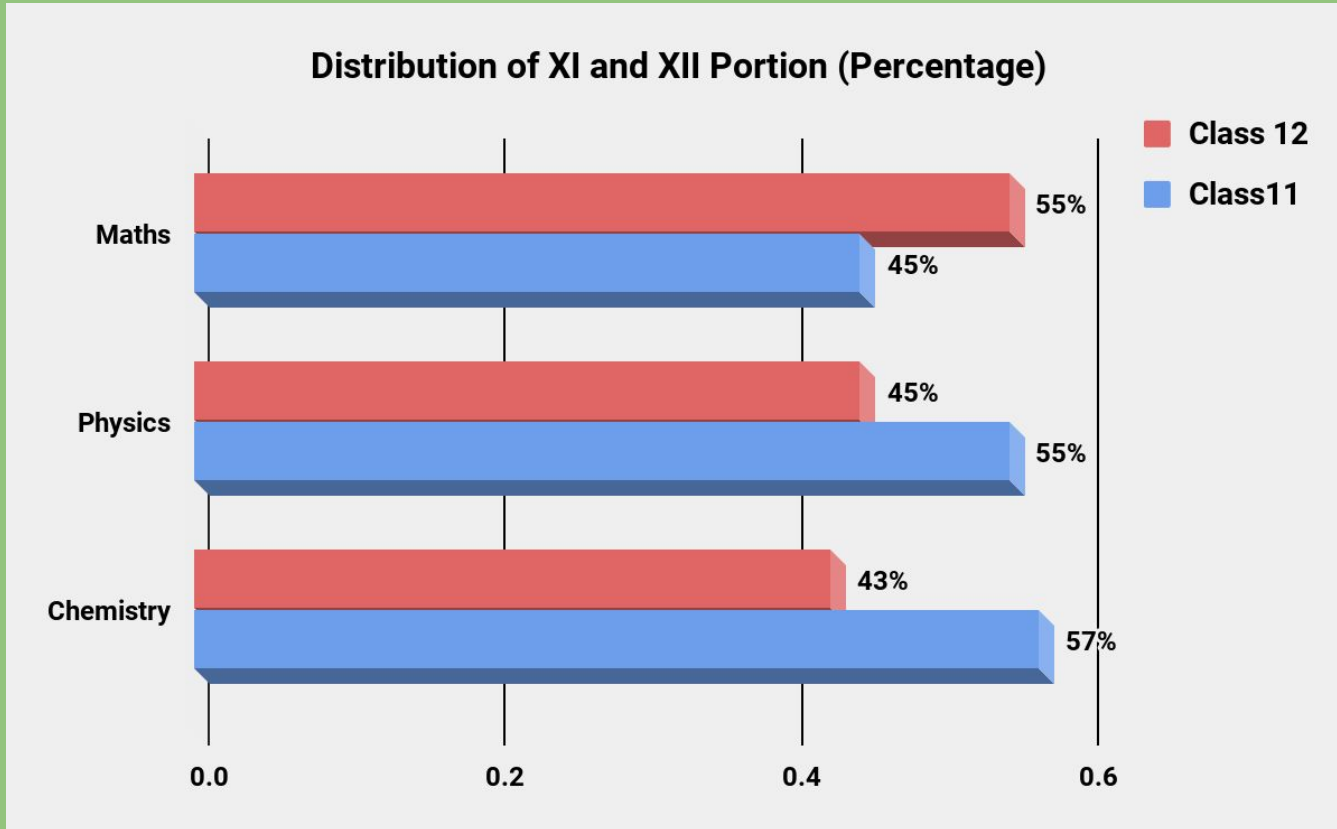
IIT JEE 2011 Question-wise Difficulty Level



IIT JEE 2011 Question-wise Difficulty Level

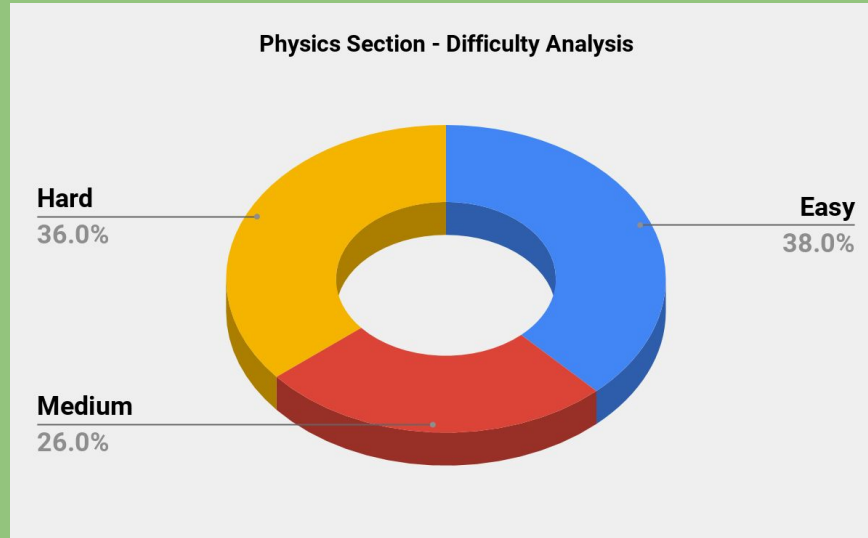


Distribution of XI and XII Portion in IIT JEE 2011



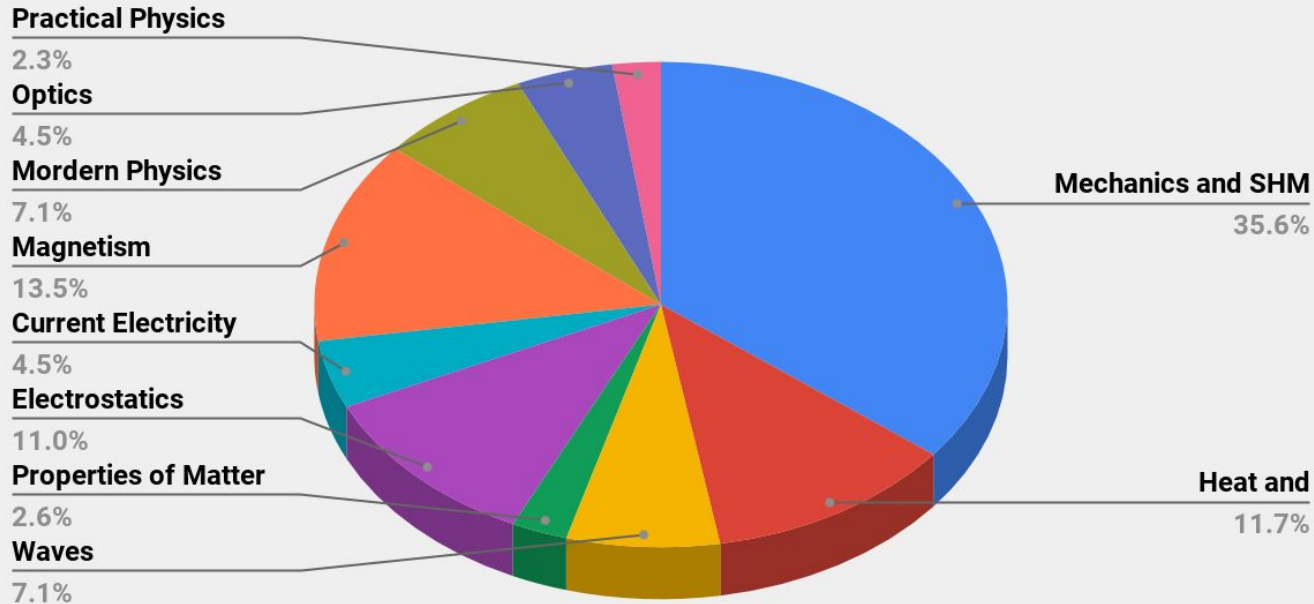
IIT JEE 2011 Paper Analysis: Physics

- Overall the difficulty level of Physics section was from an easy to a moderate level.
- Majority of the questions were set from the concepts Mechanics.
- There were a few numerical or calculation based questions making them time consuming..
- Surprisingly no questions from the topic of Optics in paper I.
- However, the topics left in paper 1 appeared in paper 2 thus balancing the syllabus coverage.



IIT JEE 2011 Paper Analysis: Physics Section

Physics Weightage of Marks

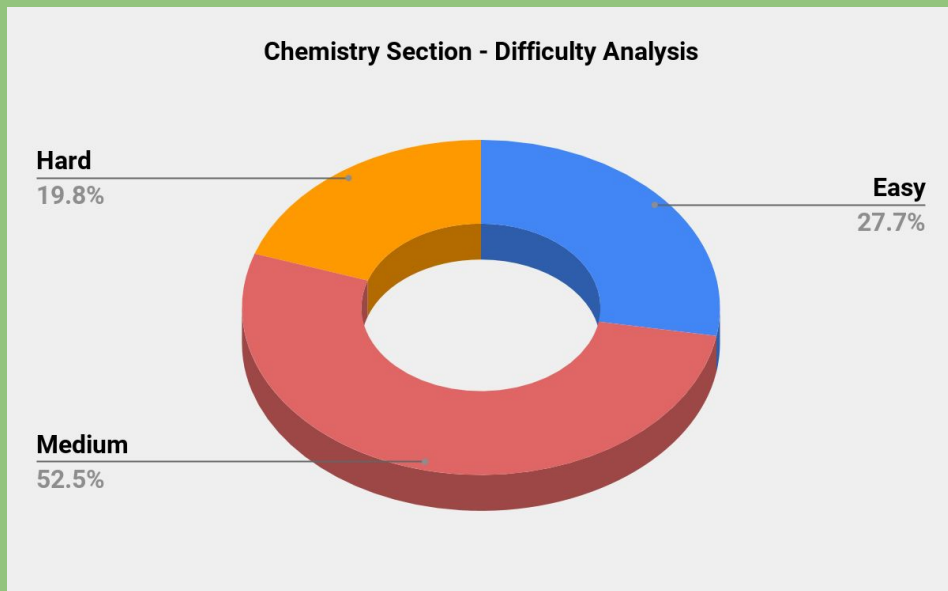


Important Topics in Physics

Rotation (Rigid Body Dynamics)	Gravitation
Electromagnetic Field	Electromagnetic Induction
Electrostatics	Alternating Current
Geometrical Optics	Friction
Modern Physics	Simple Harmonic Motion
Sound Waves	Wave Optics
Modern Physics	Capacitance
Kinetic Theory of Gases	Fluids
Circular Motion	Experiments & Error Analysis
Current Electricity	Heat Transfer

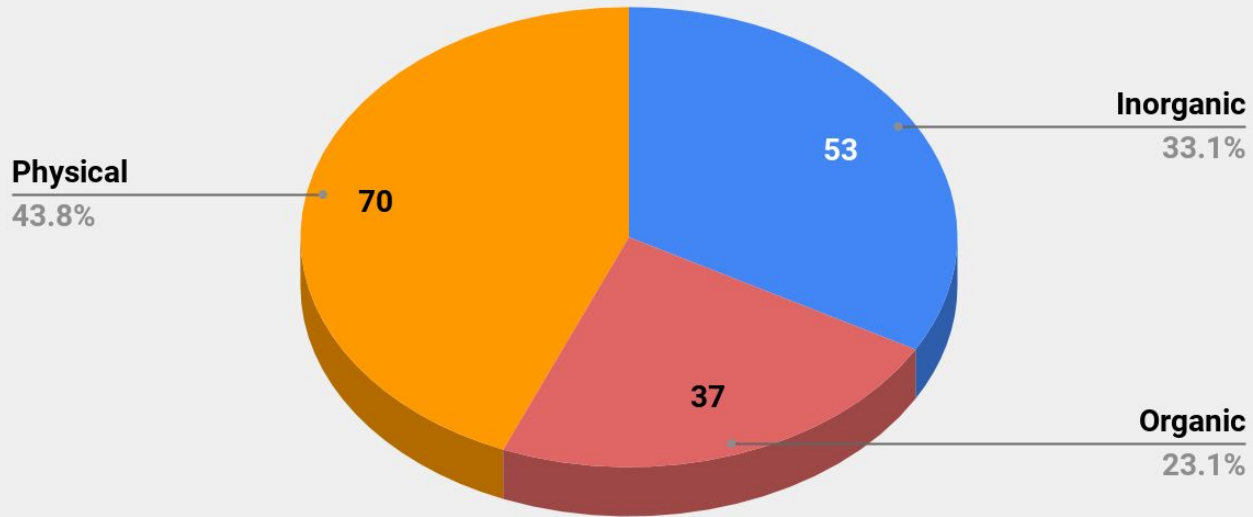
IIT JEE 2011 Paper Analysis: Chemistry

- The Chemistry section was on a moderate level.
- The questions were mainly designed to evaluate or test the conceptual clarity of the candidates.
- Paper 2 of IIT-JEE 2011 was a bit difficult compared to paper 1.
- Some of the questions in Physical chemistry were calculation based and it was more difficult.
- The complexity of questions from Organic Chemistry made this paper a challenging one.



IIT JEE 2011 Paper Analysis: Chemistry Section

CHEMISTRY - PAPER - Topic wise Analysis

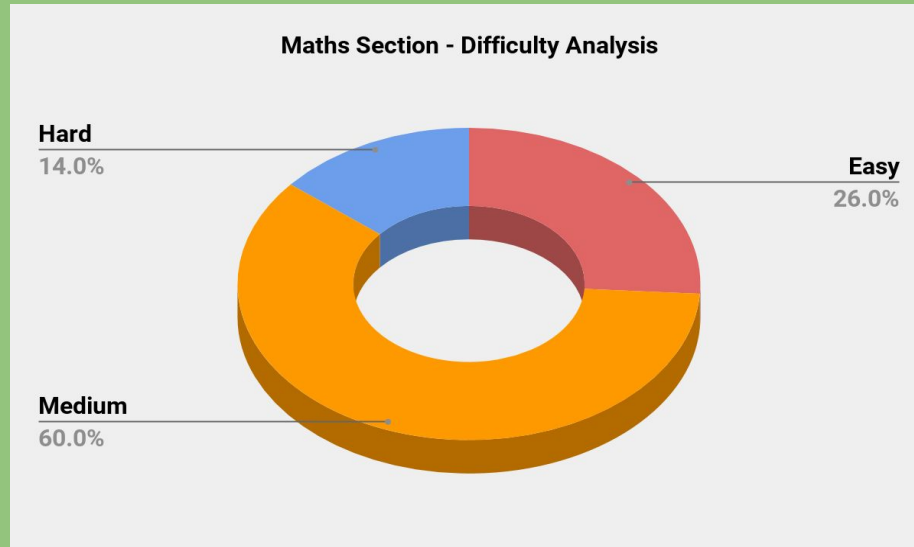


Important Topics in Chemistry

Carbonyl Compound	Chemical Kinetics
P-Block Elements	Aromatic Compounds
Biomolecules	Oxidation Reduction
Thermodynamics	Isomerism
Surface Chemistry	Thermochemistry
Qualitative Analysis	Solid State
POC -1 & Structural Identification	Mole Concepts 2
Atomic Structure & Nuclear Chemistry	Colligative Properties
Mole Concepts 1	Metallurgy
Chemical Bonding	Gaseous State
Coordination Compound	D-Block Elements
Electrochemistry	Carboxylic Acid & Derivatives

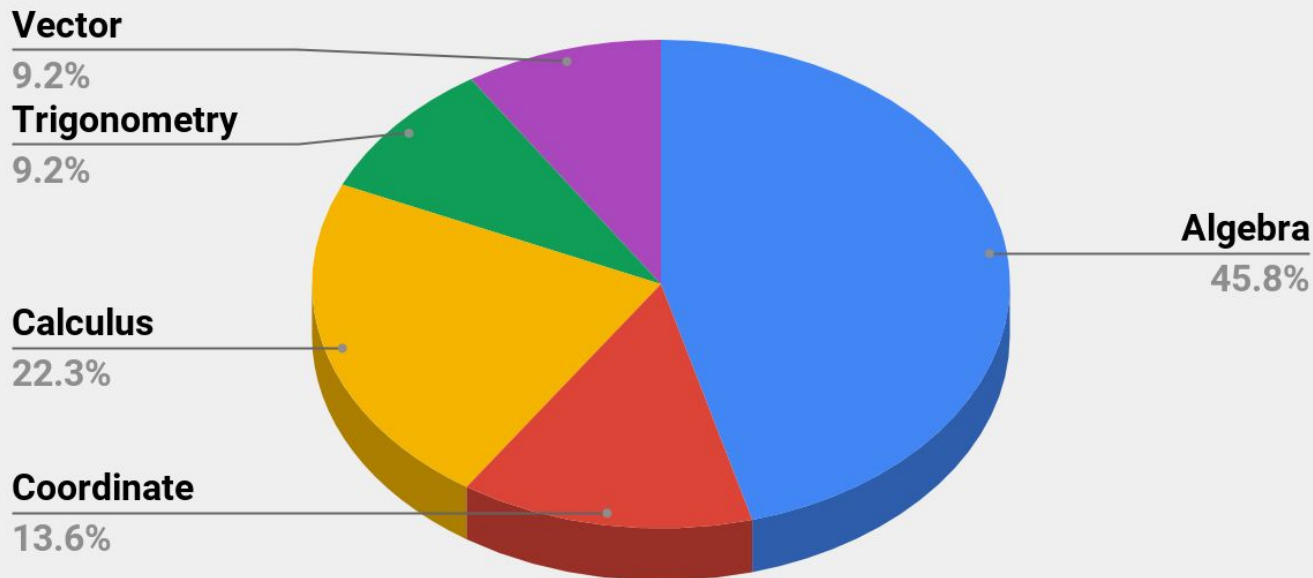
IIT JEE 2011 Paper Analysis: Maths Section

- Mathematics was a moderately difficult section.
- Overall the IIT JEE 2011 paper seemed easier than the 2010 paper.
- Few questions required in-depth understanding of the concepts.
- Questions were more from Trigonometry. Algebra, Matrices & Determinants, Vectors and Calculus had major shares too.
- Paper 2 Mathematics part was tougher than paper I. This paper had more calculations to solve than the first paper.



IIT JEE 2011 Paper Analysis: Maths Section

Maths Weightage of Marks



Important Topics in Maths

Definite Integration	Limits
Application of Derivatives	Trigonometric Equations
Probability	Differential Equations
3D Geometry	Parabola
Matrices & Determinant	Hyperbola
Permutation & Combination	Indefinite Integration
Circle	Complex Number
Continuity & Derivability	Ellipse
Vector	Properties of Triangle
Functions	Sequence and Progression

IIT JEE 2011 Cutoff

Category	Minimum Qualifying Mark for Ranking			Aggregate cut-off
	Chemistry	Physics	Mathematics	
GE	20	20	34	229
OBC	18	18	31	207
SC	10	10	17	119
ST	10	10	17	115
PD	10	10	17	11

Thank You!

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