

IEE (Main) 2015

A Detailed Analysis by *ATANU MALLIK*

On 4-April-2015, JEE (Main) 2015 was conducted for students opting to take this exam by offline mode. This is the third edition of this Exams after wide ranging changes were introduced in year 2013 by CBSE and Ministry of HRD. Around 13 Lakh students are slated to appear for this exam in offline and online modes.

JEE (Main) 2015 was conducted in two parts (Paper 1 and Paper 2). Paper 1 was conducted from 9:30 AM to 12:30 PM and Paper 2 for B. Arch. Aspirants was conducted from 2 PM to 5 PM.

Paper 1 was for students interested for engineering seats in various NITs, while paper 2 was for students interested for B. Arch degrees.

The analysis below pertains to only Paper 1

OVERALL MARKS DISTRIBUTION

The paper pattern was same as last year. The paper had 90 questions each worth 4 marks. All questions were objective type with single correct option. Subject wise each subject had 30 questions of 120 marks.

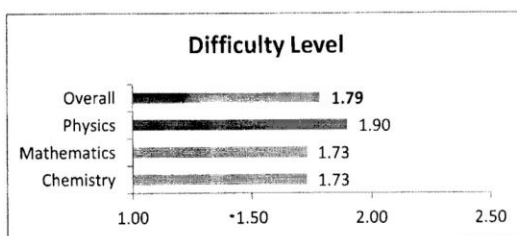
SUBJECT	Class 11		Class 12		Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Chemistry	10	40	20	80	30	120
Mathematics	16	64	14	56	30	120
Physics	13	52	17	68	30	120
Grand Total	39	156	51	204	90	360

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	1.73
Mathematics	1.73
Physics	1.90
Overall Average	1.79



Difficulty Level Analysis: No of Questions

Subject	Easy Level		Medium Level		Difficult Level	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Chemistry	13	52	12	48	5	20
Mathematics	11	44	16	64	3	12
Physics	8	32	17	68	5	20
Grand Total	32	128	45	180	13	52

Physics was on tougher side compared with Chemistry & Mathematics. While around 128 Marks can be considered easy overall, 180 marks are relatively difficulty and 52 marks are considered difficult by Resonance Team.

Overall, it is felt that while paper is moderately difficulty, the cut-off may remain same as last year.

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PHYSICS ANALYSIS

UNIT & TOPIC NAME	NO OF QUESTION	TOTAL MARKS	% WEIGHTAGE
Current Electricity	2	8	6.7%
Ohms Law	1	4	3.3%
Kirchhoff's Law	1	4	3.3%
Electro Magnetic Induction	2	8	6.7%
LR Circuit	1	4	3.3%
LC Oscillation	1	4	3.3%
Electrostatics	2	8	6.7%
Lines of Force	1	4	3.3%
Electric Potential	1	4	3.3%
Geometrical Optics	1	4	3.3%
Prism	1	4	3.3%
Modern Physics	2	8	6.7%
Modern Physics	1	4	3.3%
Bohr Model	1	4	3.3%
Simple Harmonic Motion	1	4	3.3%
Simple Harmonic Motion	1	4	3.3%
Sound Waves	1	4	3.3%
Doppler	1	4	3.3%
Mechanics	8	32	26.7%
Elasticity	1	4	3.3%
Relative Motion	1	4	3.3%
Error in Measurement	1	4	3.3%
Friction	1	4	3.3%
Centre of Mass	2	8	6.7%
Rigid Body Dynamics	1	4	3.3%
Gravitation	1	4	3.3%
Heat & Thermodynamics	3	12	10.0%
KTG & First Law of Thermodynamics	2	8	6.7%
KTG & Second Law of Thermodynamics	1	4	3.3%
Capacitor	1	4	3.3%
Circuits	1	4	3.3%
Electro Magnetic Field & Forces	3	12	10.0%
Force on Loop	1	4	3.3%
Force on Straight Wire	1	4	3.3%
Torque on Loop	1	4	3.3%
Electromagnetic waves	1	4	3.3%
Intensity	1	4	3.3%
Wave Optics	2	8	6.7%
Huygen's Principle	1	4	3.3%
Resolving Power	1	4	3.3%
Principles of Communications	1	4	3.3%
Modulation	1	4	3.3%
GRAND TOTAL	30	120	100%

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EXPECTED CUTOFF

JEE (Main) 2015: Tentative* Cutoff Table for JEE (Advanced) 2015				
Category	% Reservation	Total Seats	Cut-off Marks*	% Cutoff
Open	50.5%	75,750	114	31.67%
OBC	27.0%	40,500	72	20.00%
SC	15.0%	22,500	51	14.17%
ST	7.5%	11,250	46	12.78%
Total	100.0%	1,50,000		

JEE (Main) 2015: Maximum Marks 360

* For Qualification in JEE (Advanced) if student is also in Top-20% or minimum of 75% marks in class-12

The Cut-off of JEE (Main) 2015 for JEE (Advanced) 2015 is estimated on the basis of Previous Year Data and Toughness Analysis of JEE (Main) 2015 Paper by Resonance Experts.

This data is not an official data prepared by the concerned Authority.