

JEE Main 2016 (Offline – 3 April, 2016)
Detailed analysis by Expert Team of Nivedita Classes

Complete Question and Marks Distribution

	XI		XII		Total
	No of Ques	% Weightage	No of Ques	% Weightage	
Physics	12	40.0%	18	60.0%	30
Chemistry	16	53.3%	14	46.7%	30
Math	17	56.7%	13	43.3%	30
Total	45	50.0%	45	50.0%	90

Chapterwise / Topicwise Marks Distribution

Mathematics				
Unit/Topic Name	No of Ques	Marks	% Weightage	Difficulty (Scale of 3)
Calculus	8	32	26.7%	2
Functions	1	4	3.3%	Easy
Limits	1	4	3.3%	Hard
Derivative	1	4	3.3%	Medium
AOD (Extrema)	1	4	3.3%	Medium
Indefinite Integration	1	4	3.3%	Hard
Definite Integration	1	4	3.3%	Hard
AOI	1	4	3.3%	Medium
Differential Equation	1	4	3.3%	Medium
Co-ordinate Geometry (2D)	5	20	16.7%	2.2
Straight Line	1	4	3.3%	Medium
Circle	2	8	6.7%	Medium + Hard
Parabola	1	4	3.3%	Hard

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Phone No.: 011-41070321, **Mobile No.:** 08510070321

Email ID: info@niveditaclasses.com, **Website:** www.niveditaclasses.com

Hyperbola	1	4	3.3%	Easy
Algebra	11	44	36.7%	1.2
Quadratic Equation	1	4	3.3%	Easy
Complex Number	1	4	3.3%	Easy
Matrices	1	4	3.3%	Easy
Determinants	1	4	3.3%	Easy
P & C	1	4	3.3%	Easy
Statistics	1	4	3.3%	Easy
Probability	1	4	3.3%	Easy
Mathematical Logic	1	4	3.3%	Medium
Binomial Theorem	1	4	3.3%	Easy
Sequence & Series	2	8	6.7%	Easy + Medium
Vector & 3D	3	12	10.0%	2.3
Vector	1	4	3.3%	Hard
3D Geometry	2	8	6.7%	Medium
Trigonometry	3	12	10.0%	1.6
Trigonometric Equation	1	4	3.3%	Medium
Height & Distance	1	4	3.3%	Easy
Inverse Trigonometry	1	4	3.3%	Medium
Total	30	120	100.0%	1.83

Physics				
Unit/Topic Name	No of Ques	Marks	% Weightage	Difficulty (Scale of 3)
Mechanics	7	28	23.3%	1.9
Errors	2	8	6.7%	Easy + Hard
Work, Power & Energy	2	8	6.7%	Easy + Medium
Rotational Mechanics	2	8	6.7%	Hard + Medium
Gravitation	1	4	3.3%	Easy
Heat & Thermodynamics	3	12	10.0%	3

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Heat	1	4	3.3%	Hard
Thermodynamics	2	8	6.7%	Hard
Oscillations & Waves	3	12	10.0%	2
Oscillations	1	4	3.3%	Medium
Waves	2	8	6.7%	Easy + Hard
Electro Statics & Dynamics	8	32	26.7%	1.7
Electric Field	1	4	3.3%	Hard
Capacitor	1	4	3.3%	Medium
Electric Current	1	4	3.3%	Easy
Magnetic Effects	2	8	6.7%	Easy + Medium
Magnetism	1	4	3.3%	Easy
AC	1	4	3.3%	Medium
EM Waves	1	4	3.3%	Easy
Light	4	16	13.3%	2.5
Ray Optics	2	8	6.7%	Hard + Medium
Wave Optics	1	4	3.3%	Hard
Dual Nature	1	4	3.3%	Medium
Nuclear Physics	1	4	3.3%	1
Nuclei	1	4	3.3%	Easy
Semiconductor & Communication	4	16	13.3%	1
Semiconductor	3	12	10.0%	Easy
Communication	1	4	3.3%	Easy
Total	30	120	100.0%	1.87

Chemistry				
Unit / Topic Name	No of Ques	Marks	% Weightage	Difficulty (Scale of 3)
Organic Chemistry	10	40	33.3%	1.8
Some Basic Concepts of organic chemistry	3	12	10.0%	Easy + Medium + Hard

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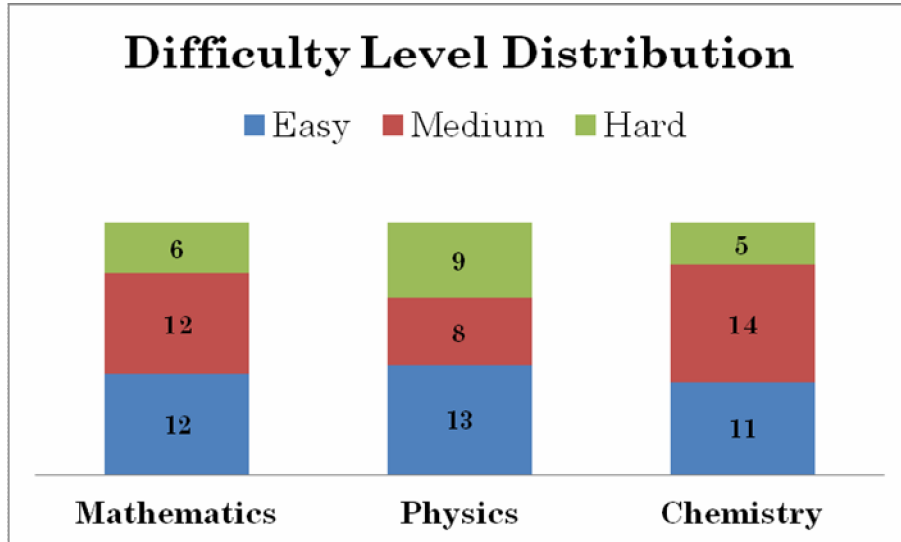
Hydrocarbon	2	8	6.7%	Hard + Medium
Haloalkane & Haloarenes	1	4	3.3%	Medium
Amines	1	4	3.3%	Easy
Biomolecules	1	4	3.3%	Easy
Polymers	1	4	3.3%	Medium
Chemistry in everyday life	1	4	3.3%	Easy
Physical Chemistry	10	40	33.3%	1.8
Some Basic Concepts of Chemistry	1	4	3.3%	Hard
Structure of Atom	1	4	3.3%	Medium
States of Matter	1	4	3.3%	Hard
Thermodynamics	1	4	3.3%	Easy
Equilibrium	1	4	3.3%	Easy
Solid State	1	4	3.3%	Easy
Solutions	1	4	3.3%	Medium
Electrochemistry	1	4	3.3%	Easy
Chemical Kinetics	1	4	3.3%	Hard
Surface Chemistry	1	4	3.3%	Easy
Inorganic Chemistry	10	40	33.3%	1.8
Periodicity	1	4	3.3%	Medium
Chemical Bonding	1	4	3.3%	Medium
Hydrogen	1	4	3.3%	Medium
S Block	2	8	6.7%	Easy + Medium
P Block	2	8	6.7%	Easy + Medium
Co-ordination Compound	2	8	6.7%	Medium
Environmental Chemistry	1	4	3.3%	Medium
Total	30	120	100.0%	1.8

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Difficulty Level Distribution



Expected / Tentative Cut-off

As per our expert team, the cut-off should be around 106.