

Paper Analysis - JEE (Main) 2019

On 9-Jan-2019, JEE Main was conducted for those students who opted to take this exam via the online mode (Shift - 1). Around 8 Lac students were selected to appear for this exam in online mode. These exams were conducted in two parts - Paper 1 and Paper 2.

Here is the analysis of Paper 1 only, which was conducted for engineering students.

Overall Marks Distribution

The paper pattern of JEE Main Paper 1 was the same as that of the previous year. This paper had 90 questions in all, each worth 4 marks, along with a negative marking of -1 for every attempted incorrect answer. All questions were of objective type with one correct option. If we talk subject wise, then each subject had 30 questions of 120 marks.

Overall Difficulty Level Analysis

In this analysis, every question is rated on a scale of 1 to 3. The individual ratings are then averaged to calculate overall difficulty level.

1: Easy

2: Moderate

3: Difficult

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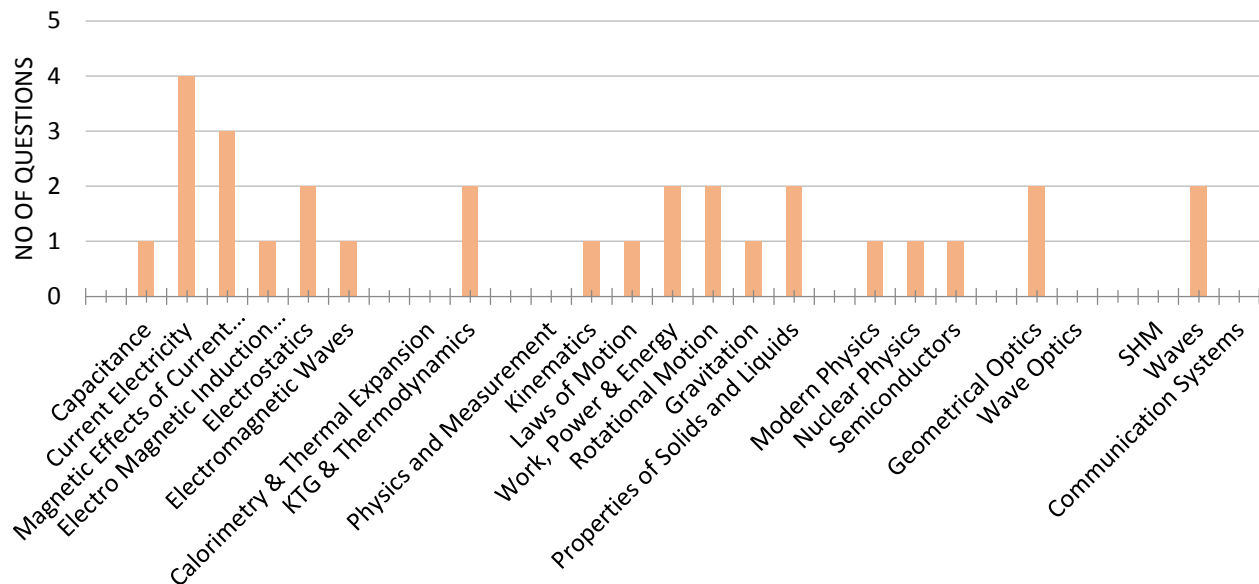
Subject-Wise Analysis

A – Physics

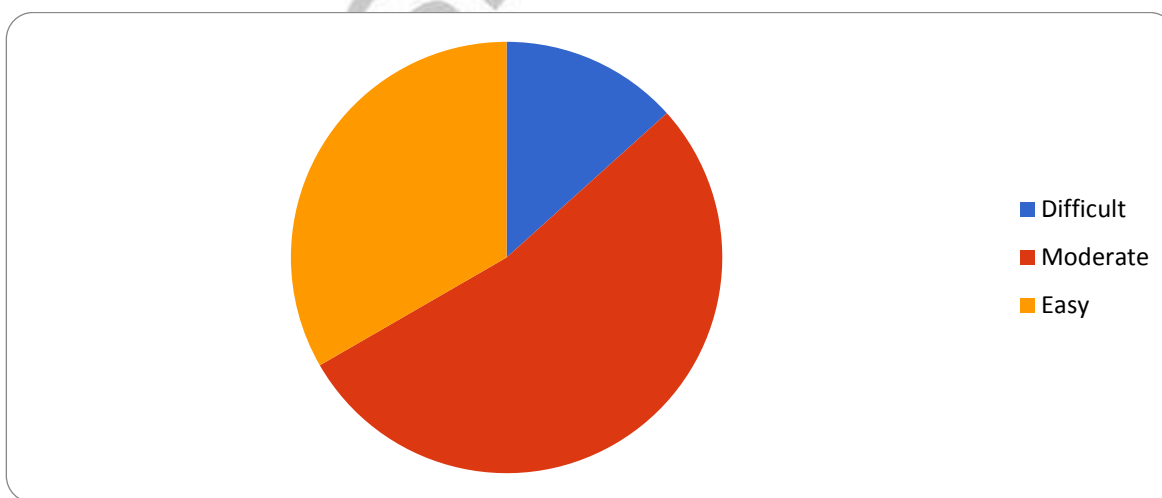
Topic wise allocation of # of Questions & Marks

Physics			
Chapter	NO OF QUESTIONS	TOTAL MARKS	% WEIGHTAGE
Capacitance	1	4	3.33%
Current Electricity	4	16	13.33%
Magnetic Effects of Current and Magnetism	3	12	10.00%
Electro Magnetic Induction and Alternating Current	1	4	3.33%
Electrostatics	2	8	6.67%
Electromagnetic Waves	1	4	3.33%
Calorimetry & Thermal Expansion	0	0	0.00%
KTG & Thermodynamics	2	8	6.67%
Physics and Measurement	0	0	0.00%
Kinematics	1	4	3.33%
Laws of Motion	1	4	3.33%
Work, Power & Energy	2	8	6.67%
Rotational Motion	2	8	6.67%
Gravitation	1	4	3.33%
Properties of Solids and Liquids	2	8	6.67%
Modern Physics	1	4	3.33%
Nuclear Physics	1	4	3.33%
Semiconductors	1	4	3.33%
Geometrical Optics	2	8	6.67%
Wave Optics	0	0	0.00%
SHM	0	0	0.00%
Waves	2	8	6.67%
Communication Systems	0	0	0.00%
Grand Total	30	120	100%

NO OF QUESTIONS vs. CHAPTER



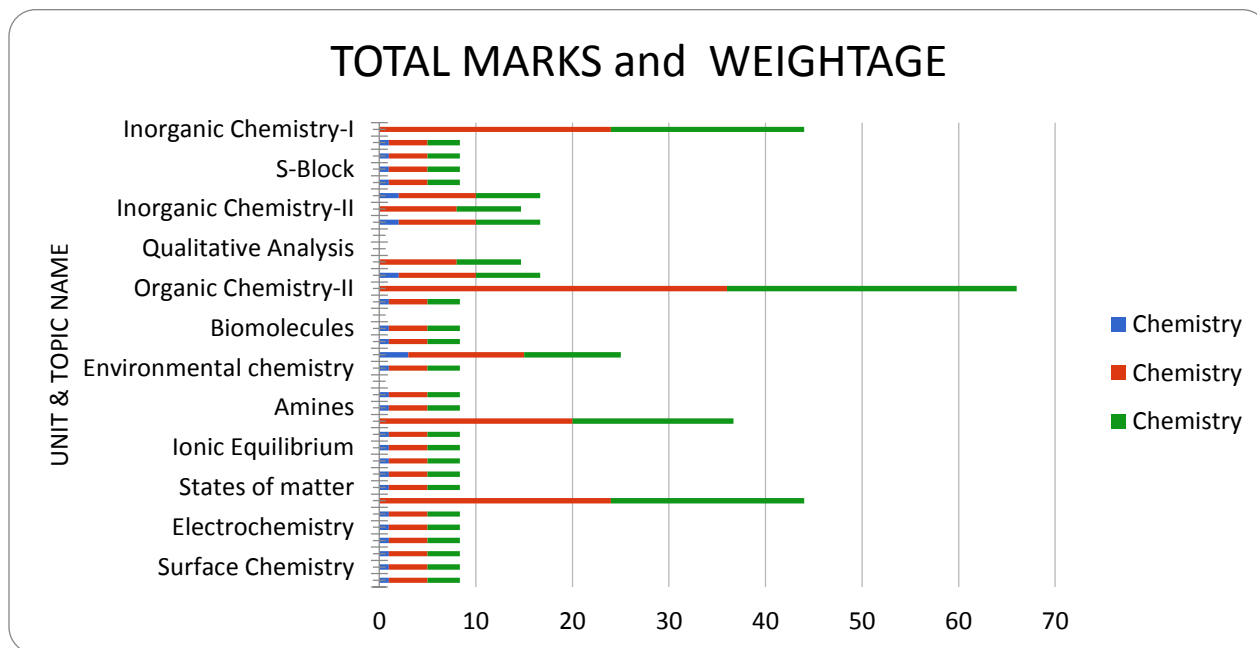
Difficulty Level	Number of Question
Difficult	4
Moderate	16
Easy	10



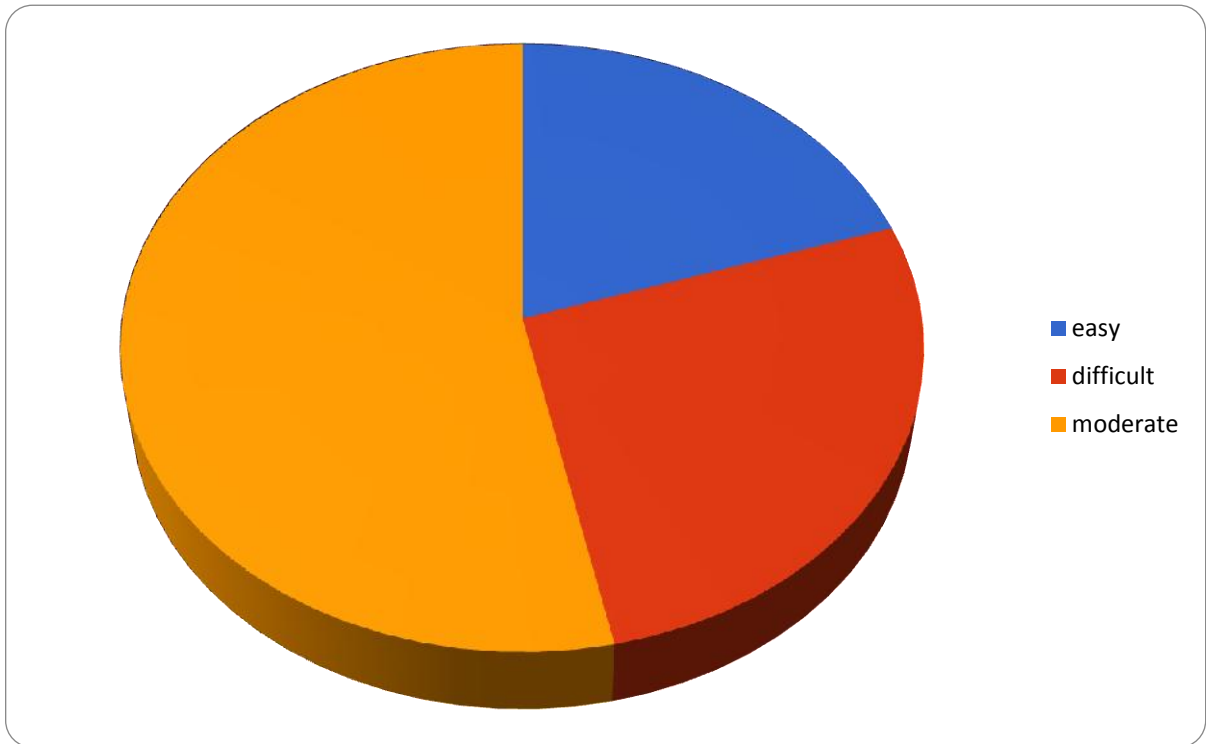
B – Chemistry

Topic wise allocation of # of Questions & Marks

Chemistry			
UNIT & TOPIC NAME	NO OF QUESTION	TOTAL MARKS	% WEIGHTAGE
Inorganic Chemistry-I	6	24	20%
Chemical Bonding	1	4	3.33%
Periodic Table & Periodicity in Properties	1	4	3.33%
S-Block	1	4	3.33%
Hydrogen	1	4	3.33%
p block-I	2	8	6.67%
Inorganic Chemistry-II	2	8	6.67%
Coordination Compounds	2	8	6.67%
p block -II	0	0	0%
Qualitative Analysis	0	0	0%
Organic Chemistry-I	2	8	6.67%
General Organic Chemistry-I	2	8	6.67%
Organic Chemistry-II	9	36	30%
Alkyl and Aryl Halide	1	4	3.33%
Alcohol, Phenols & Ether	0	0	0%
Biomolecules	1	4	3.33%
Polymers	1	4	3.33%
Carbonyl Compounds and its derivatives	3	12	10%
Environmental chemistry	1	4	3.33%
Grignard Reagent, Reduction, Oxidation & Hydrolysis	0	0	0%
Chemistry in everyday life	1	4	3.33%
Amines	1	4	3.33%
Physical Chemistry-I	5	20	16.67%
Atomic Structure & Nuclear Chemistry	1	4	3.33%
Ionic Equilibrium	1	4	3.33%
Mole Concept	1	4	3.33%
Thermodynamics and Thermochemistry	1	4	3.33%
States of matter	1	4	3.33%
Physical Chemistry-II	6	24	20%
Chemical Kinetics	1	4	3.33%
Electrochemistry	1	4	3.33%
Solid State	1	4	3.33%
Solution & Colligative Properties	1	4	3.33%
Surface Chemistry	1	4	3.33%
General Isolation of metals	1	4	3.33%
Grand Total	30	120	100%



Difficulty Level	Number of Question	Difficulty %
Difficult	8	26.66
Moderate	16	53.33
Easy	6	20

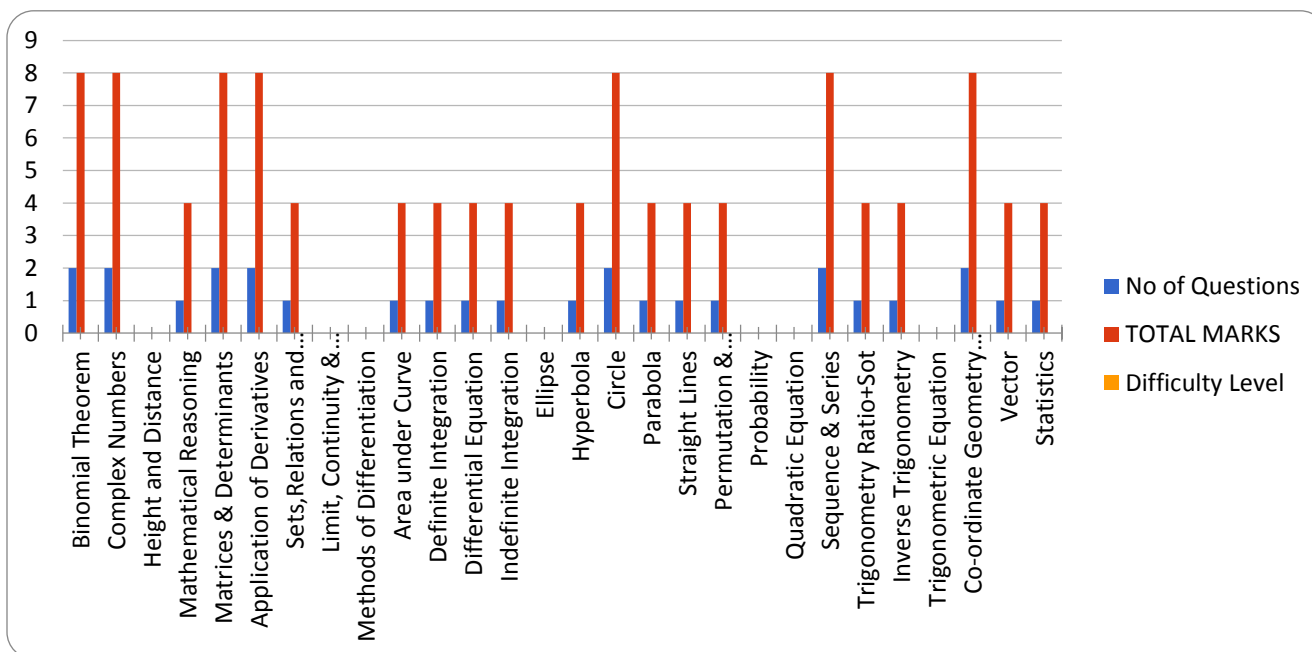


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C – Mathematics

Topic wise allocation of # of Questions & Marks

Mathematics			
UNIT & TOPIC NAME	No of Questions	TOTAL MARKS	% WEIGHTAGE
Binomial Theorem	2	8	6.67%
Complex Numbers	2	8	6.67%
Height and Distance	0	0	0%
Mathematical Reasoning	1	4	3.33%
Matrices & Determinants	2	8	6.67%
Differential Calculus	3	12	10%
Application of Derivatives	2	8	6.67%
Sets, Relations and Function	1	4	3.33%
Limit, Continuity & Differentiability	0	0	0%
Methods of Differentiation	0	0	0%
Integral Calculus	4	16	13.33%
Area under Curve	1	4	3.33%
Definite Integration	1	4	3.33%
Differential Equation	1	4	3.33%
Indefinite Integration	1	4	3.33%
Coordinate Geometry (2-D)	5	20	16.67%
Ellipse	0	0	0%
Hyperbola	1	4	3.33%
Circle	2	8	6.67%
Parabola	1	4	3.33%
Straight Lines	1	4	3.33%
Permutation & Combination	1	4	3.33%
Probability	0	0	0%
Quadratic Equation	0	0	0%
Sequence & Series	2	8	6.67%
Trigonometry	2	8	6.67%
Trigonometry Ratio + Sot	1	4	3.33%
Inverse Trigonometry	1	4	3.33%
Trigonometric Equation	0	0	0%
3-D and Vectors	3	12	10%
Co-ordinate Geometry (3-D)	2	8	6.67%
Vector	1	4	3.33%
Statistics	1	4	3.33%
Grand Total	30	120	100%



Easy	23
Moderate	5
Difficult	0

