

Paper Analysis - JEE (Main) 2019

On 12 -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, which was conducted for the engineering aspirants.

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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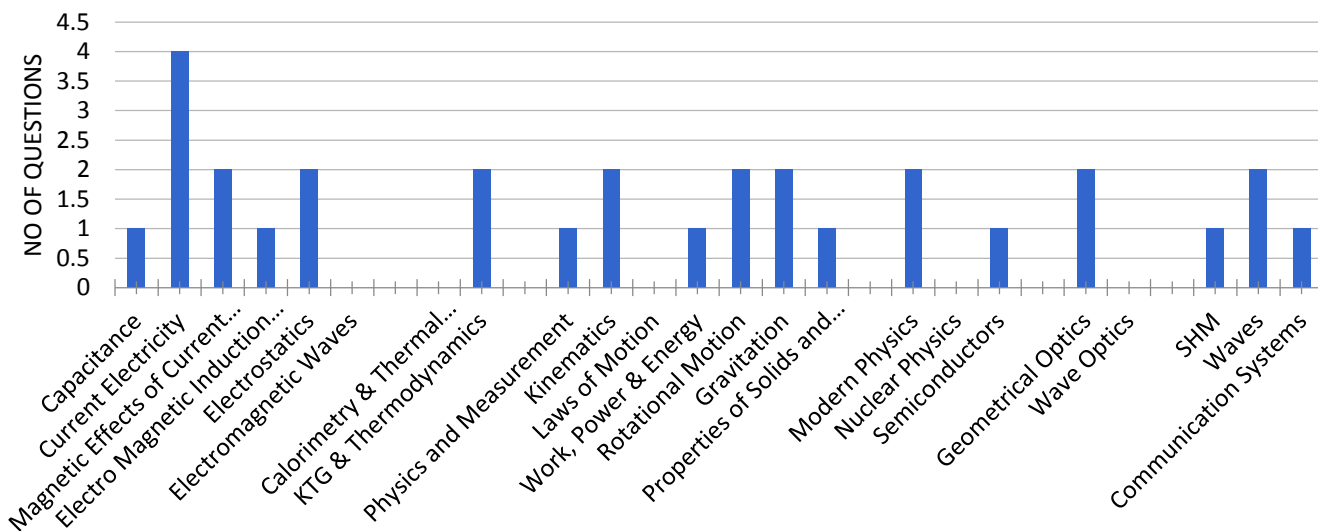
Subject-Wise Analysis

A – Physics

Topic wise allocation of # of Questions & Marks

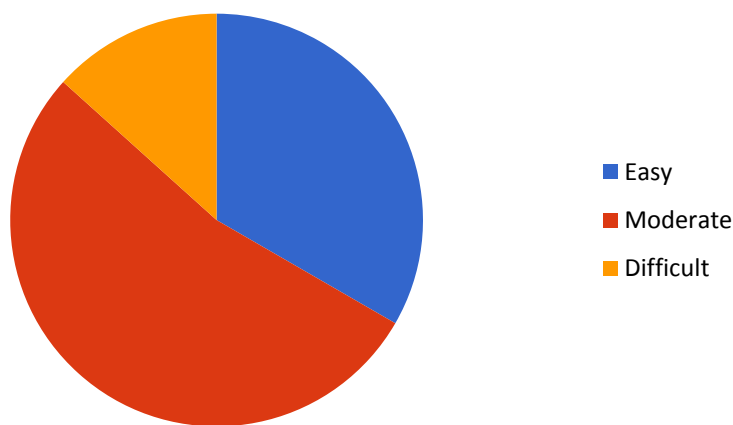
Physics			
CHAPTER	NO OF QUESTIONS	TOTAL MARKS	% WEIGHTAGE
Capacitance	1	4	3.33%
Current Electricity	4	16	13.33%
Magnetic Effects of Current and Magnetism	2	8	6.67%
Electro Magnetic Induction and Alternating Current	1	4	3.33%
Electrostatics	2	8	6.67%
Electromagnetic Waves		0	0.00%
Calorimetry & Thermal Expansion		0	0.00%
KTG & Thermodynamics	2	8	6.67%
Physics and Measurement	1	4	3.33%
Kinematics	2	8	6.67%
Laws of Motion		0	0.00%
Work, Power & Energy	1	4	3.33%
Rotational Motion	2	8	6.67%
Gravitation	2	8	6.67%
Properties of Solids and Liquids	1	4	3.33%
Modern Physics	2	8	6.67%
Nuclear Physics		0	0.00%
Semiconductors	1	4	3.33%
Geometrical Optics	2	8	6.67%
Wave Optics		0	0.00%
SHM	1	4	3.33%
Waves	2	8	6.67%
Communication Systems	1	4	3.33%
Grand Total	30	120	100.00%

NO OF QUESTIONS vs. CHAPTER



Difficulty Level	Number of Questions
Easy	10
Moderate	16
Difficult	4

Number of Questions

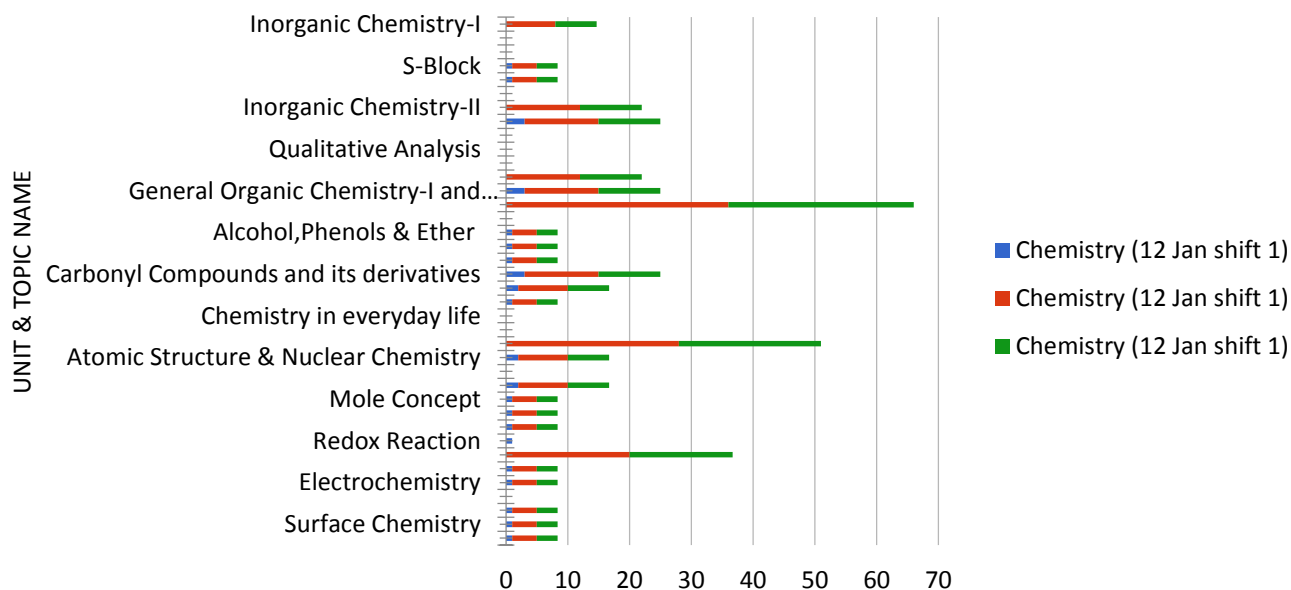


B – Chemistry

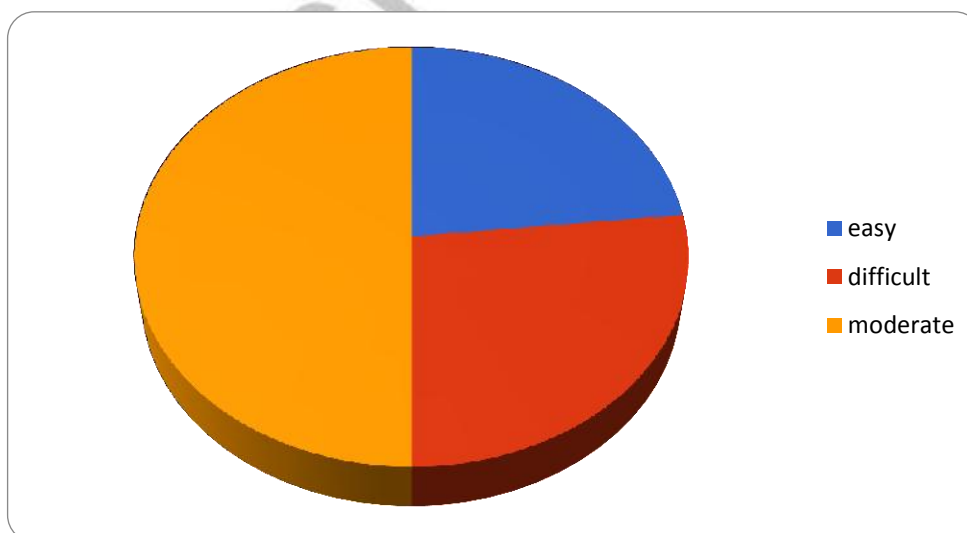
Topic wise allocation of # of Questions & Marks

Chemistry			
UNIT & TOPIC NAME	NO OF QUESTION	TOTAL MARKS	% WEIGHTAGE
Inorganic Chemistry-I	2	8	6.67%
Chemical Bonding	0	0	0%
Periodic Table & Periodicity in Properties	0	0	0%
S-Block	1	4	3.33%
Hydrogen	1	4	3.33%
p block-I	0	0	0%
Inorganic Chemistry-II	3	12	10%
Coordination Compounds	3	12	10%
p block -II	0	0	0%
Qualitative Analysis	0	0	0%
D and F block	0	0	0%
Organic Chemistry-I	3	12	10%
General Organic Chemistry-I and Hydrocarbons	3	12	10%
Organic Chemistry-II	9	36	30%
Alkyl and Aryl Halide	0	0	0%
Alcohol, Phenols & Ether	1	4	3.33%
Biomolecules	1	4	3.33%
Polymers	1	4	3.33%
Carbonyl Compounds and its derivatives	3	12	10%
Environmental chemistry	2	8	6.67%
Grignard Reagent, Reduction, Oxidation & Hydrolysis	1	4	3.33%
Chemistry in everyday life	0	0	0%
Amines	0	0	0%
Physical Chemistry-I	8	32	26.66%
Atomic Structure & Nuclear Chemistry	2	8	6.67%
Ionic Equilibrium	0	0	0%
Chemical Equilibrium	2	8	6.67%
Mole Concept	1	4	3.33%
Thermodynamics and Thermochemistry	1	4	3.33%
States of matter	1	4	3.33%
Redox Reaction	1	0	0%
Physical Chemistry-II	5	20	16.67%
Chemical Kinetics	1	4	3.33%
Electrochemistry	1	4	3.33%
Solid State	0	0	0%
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%

TOTAL MARKS and WEIGHTAGE



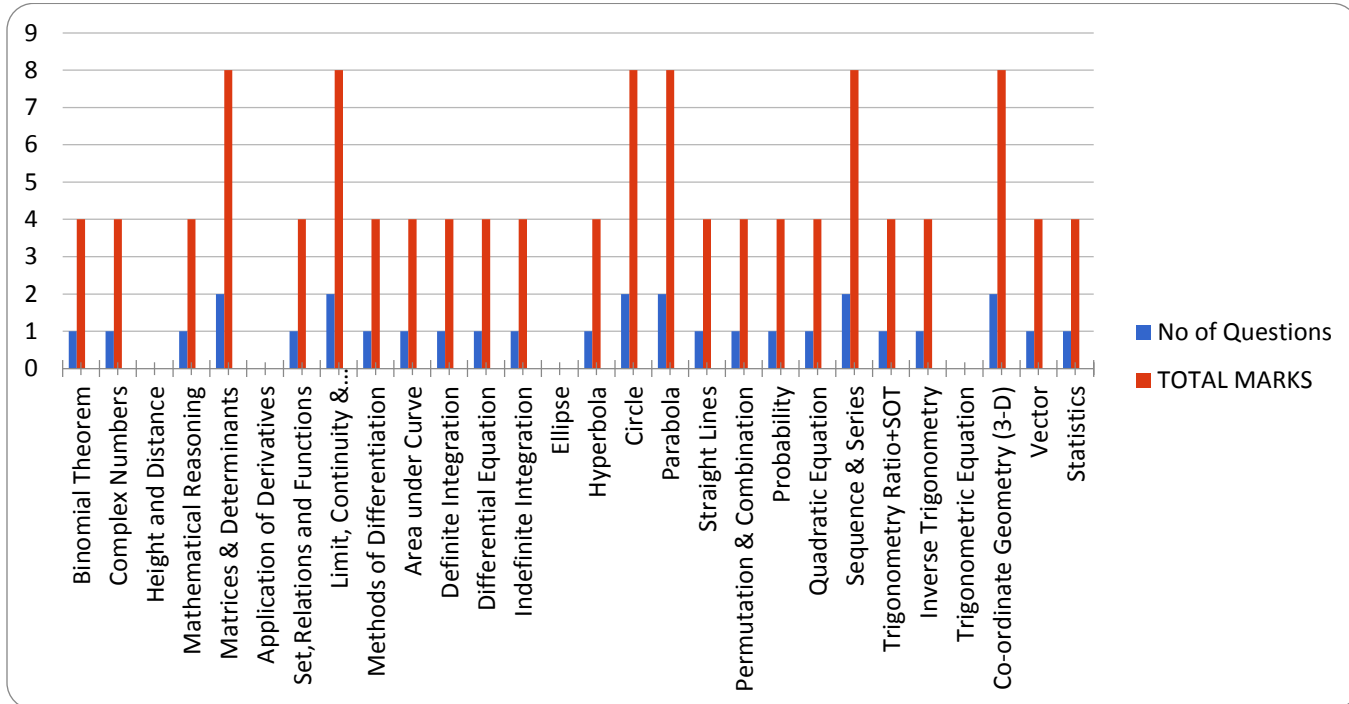
	No of question (difficulty wise)	% Difficulty
Easy	7	23.33333333
Difficult	8	26.66666667
Moderate	15	50



C – Mathematics

Topic wise allocation of # of Questions & Marks

Mathematics			
UNIT & TOPIC NAME	No of Questions	TOTAL MARKS	% Weightage
Binomial Theorem	1	4	3.33%
Complex Numbers	1	4	3.33%
Height and Distance	0	0	0%
Mathematical Reasoning	1	4	3.33%
Matrices & Determinants	2	8	6.67%
Differential Calculus	4	16	13.33%
Application of Derivatives	0	0	0%
Set, Relations and Functions	1	4	3.33%
Limit, Continuity & Differentiability	2	8	6.67%
Methods of Differentiation	1	4	3.33%
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)	6	24	20%
Ellipse	0	0	0%
Hyperbola	1	4	3.33%
Circle	2	8	6.67%
Parabola	2	8	6.67%
Straight Lines	1	4	3.33%
Permutation & Combination	1	4	3.33%
Probability	1	4	3.33%
Quadratic Equation	1	4	3.33%
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	17
Moderate	13
Difficult	0

