

JEE Main Sep 2020

6th Sep 2020, Shift 1

ANALYSIS of Memory-Based Questions

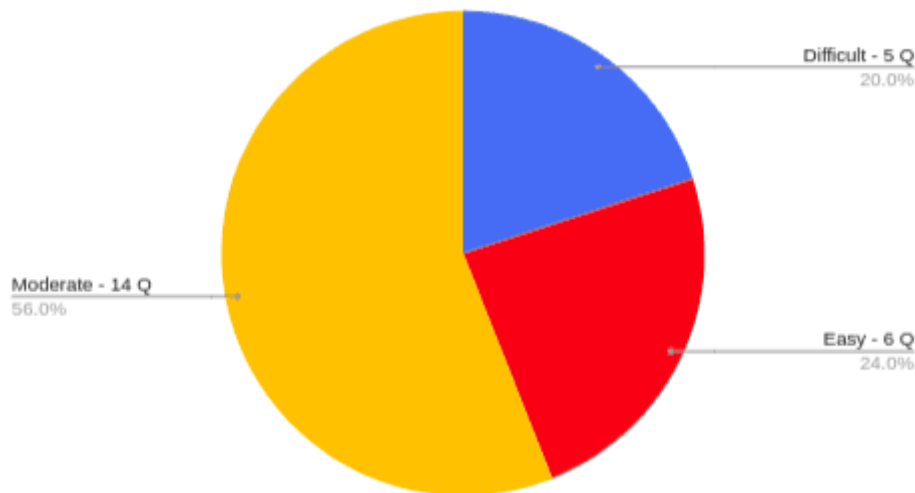
by Careers360

JEE main 2020 September 6 th shift 1 paper 1 is concluded at 12 pm. The paper started at 9pm. JEE Main paper 1 consists of questions from physics, chemistry and mathematics. Each subject is for 120 marks with 25 questions from each. Out of these 25 questions 20 are multiple choice and 5 are numerical type. According to the students' reaction the JEE Main 2020 September 6 shift 1 Maths paper is a bit lengthy with long calculations. Whereas the physics paper is more tricky and the chemistry paper is moderate. An analysis of memory based questions of all the three subjects are provided below. The given analysis of JEE Main september 2020 is based on difficulty level and also chapter wise and topic wise distribution of questions are also given.

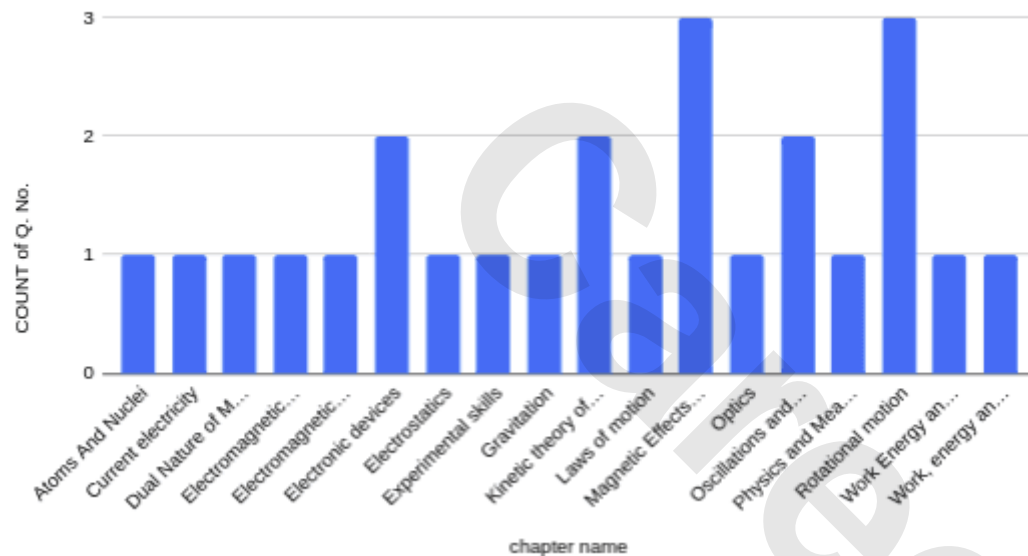
JEE Main 2020 September 6th Slot 1 Physics Paper Analysis:

Most of the physics questions are moderate. According to physics experts faculties 20% questions are difficult and 24% questions are easy

Distribution of Difficulty level



COUNT of Questions vs. chapter - Physics - 25 Question



Topic wise distribution of questions JEE Main September 6th 2020 shift 1 physics

Q. No.	chapter name	concept name	Difficulty level
1	Atoms And Nuclei	MASS-ENERGY AND NUCLEAR BINDING ENERGY	Moderate
2	Rotational motion	Moment of inertia of solid cone	Easy
3	Current electricity	Charging of capacitor & inductor	Difficult
4	Optics	Lens Maker's formula	Moderate
5	Electromagnetic Induction and	Quality factor	Easy

	Alternating currents		
6	Dual Nature of Matter and Radiation	De-broglie wavelength of an electron	Moderate
7	Electronic devices	Logic Gates	Difficult
8	Magnetic Effects of Current and Magnetism	Lorentz force	Moderate
9	Oscillations and Waves	Doppler Effect	Difficult
10	Oscillations and Waves	Simple Harmonic Motion	Moderate
11	Magnetic Effects of Current and Magnetism	Motion of a charged particle in uniform magnetic field(I)	Moderate
12	Kinetic theory of Gases	Mayer's formula	Easy
13	Laws of motion	Motion of an Insect in the Rough Bowl	Easy
14	Experimental skills	To measure the thickness of the given sheet using screw gauge	Moderate
15	Rotational motion	Equations of Linear Motion and Rotational Motion.	Easy
16	Oscillations and Waves	Interference of sound waves	Difficult
17	Gravitation	Experimental skills	Moderate
18	Work, energy and power	Potential energy curve	Moderate
19	Rotational motion	Angular Momentum	Moderate
20	Electrostatics	Electric field	Moderate
21	Electromagnetic waves	Energy Density and Intensity	Easy

		of EM waves	
22	Work Energy and Power	Perfectly Inelastic Collision	Difficult
23	Current electricity	cell and emf of cell	Moderate
24	Kinetic theory of Gases	Ideal gas equation	Moderate
25	Physics and Measurement	Error in quantity raised to some power	Moderate

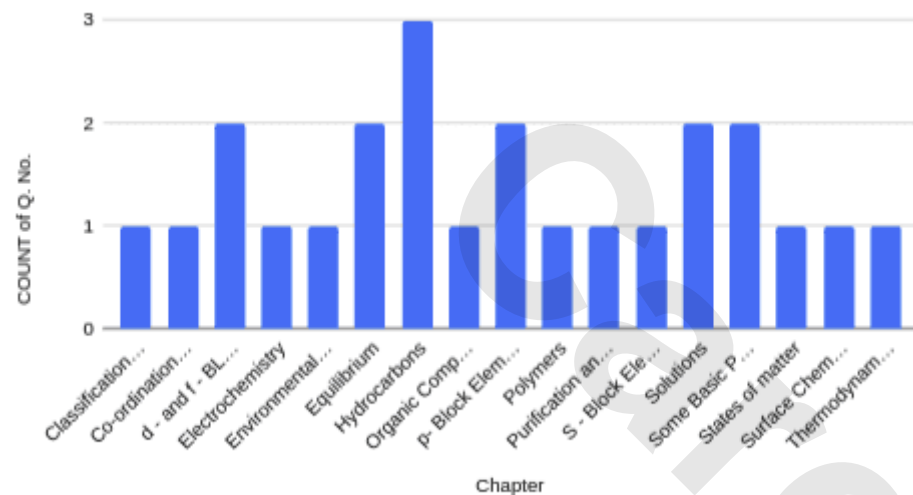
JEE Main 2020 September 6th Slot 1 Chemistry Paper Analysis:

The chemistry paper was moderate with around 56 % moderate questions and rest of the questions are a bit easy one. There are many questions from NCERT and more number of questions are asked from inorganic chemistry.

Distribution of Difficulty level - chemistry - 25 Q



COUNT of Q. No. vs. Chapter



Topic wise distribution of questions JEE Main September 6th 2020 shift 1 chemistry

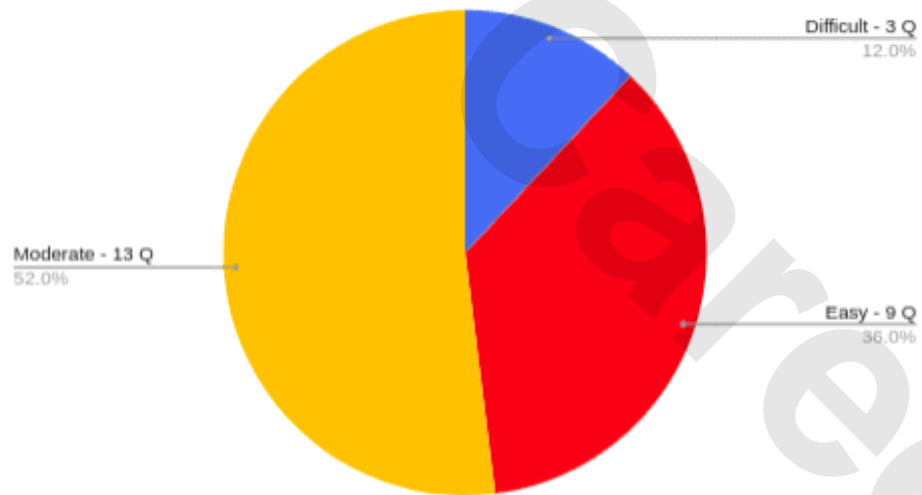
Q. No.	Chapter	Topic	Level of Difficulty
1	Some Basic Principles of Organic Chemistry	Basic Strength	Moderate
2	Environmental Chemistry	Water Pollution	Easy
3	Surface Chemistry	Micelles	Easy
4	Equilibrium	Relation between KP and KC	Easy
5	Hydrocarbons	Alkynes	Easy
6	Chemical Kinetics	Rate of Reaction	Moderate
7	Polymers	Polyethene	Easy
8	Some basic principles of Organic	Isomerism	Easy

	Chemistry		
9	p- Block Elements	Group 15	Easy
10	Classification of Elements and Periodic table	Transition elements	Easy
11	Hydrocarbons	Alkenes	Easy
12	d - and f - BLOCK ELEMENTS	Alloys	Easy
13	Hydrocarbons	Alkenes	Moderate
14	Co-ordination Compounds	Magnetic Moment	Moderate
15	Thermodynamics	Gobbs Energy	Moderate
16	Equilibrium	Ionic	Easy
17	d - and f - BLOCK ELEMENTS	Lanthanoids	Easy
18	Organic Compounds containing Oxygen	Aldehydes and Ketones	Moderate
19	S - Block Elements (Alkali and Alkaline Earth Metals)	Group 2	Easy
20	Solutions	Concentration Terms	Moderate
21	Solutions	van't Hoff Factor	Moderate
22	Electrochemistry	Electrolysis	Moderate
23	States of matter	Boyle's Law	Moderate
24	Purification and Characterisation of Organic Compounds	Carius Method	Moderate
25	p- Block Elements	Group 17	Easy

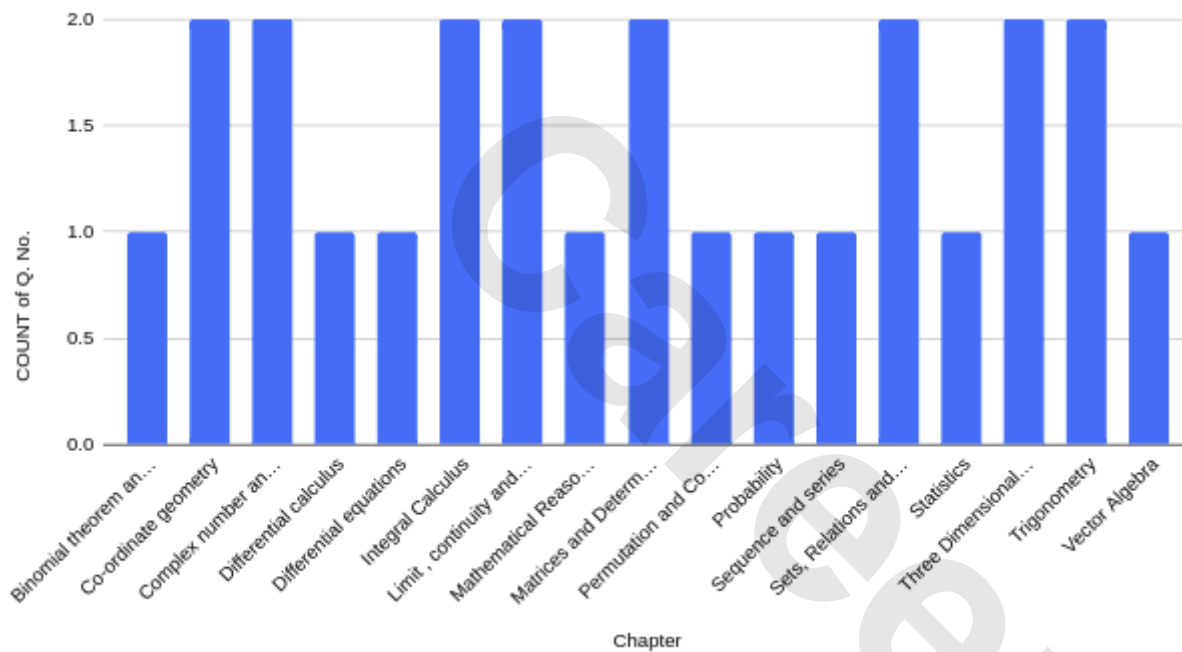
JEE Main 2020 September 6th Slot 1 Maths Paper Analysis:

The Maths question paper is difficult because of lengthy calculations. According to expert maths faculties 12% of questions are difficult, 52% are moderate and rest are easy questions. An analysis of topic wise difficulty is given after this paragraph.

Distribution of Difficulty level - Maths - 25 Question



COUNT of Questions vs. chapter - Maths - 25 Question



Topic wise distribution of questions JEE Main September 6th 2020 shift 1 maths

Q. No.	Chapter	Topic	Level of Difficulty
1	Permutation and Combination	Applications of permutations	Easy
2	Three Dimensional Geometry	Sharpest distance between two lines	Moderate
3	Binomial theorem and its simple applications	Finding remainder	Moderate
4	Integral Calculus	Evaluation of definite integral by substitution	Difficult
5	Matrices and Determinants	Applications of Trigonometry	Moderate
6	Co-ordinate geometry	Tangent of parabola	Moderate
7	Sets, Relations and Functions	function	Moderate
8	Matrices and Determinants	System of linear equation	Moderate
9	Mathematical Reasoning	Truth table based	Easy

10	Differential calculus	Application of derivatives	Easy
11	Three Dimensional Geometry	Image of a point in a given line	Difficult
12	Complex number and quadratic equations	Quadratic equations	Moderate
13	Limit , continuity and differentiability	Limits (0/0 form)	Difficult
14	Complex number and quadratic equations	Area under the curve	Moderate
15	Probability	Conditional probability	Moderate
16	Differential equations	Linear differential equations	Moderate
17	Co-ordinate geometry	Foci of ellipse	Easy
18	Sequence and series	A.P.	Easy
19	Statistics	Standard deviation	Moderate
20	Integral Calculus	Area under the curve	Moderate
21	Vector Algebra	Dot product	Easy
22	Trigonometry	Applications of trigo	Easy
23	Limit , continuity and differentiability	Continuity	Easy
24	Sets, Relations and Functions	Power sets	Easy
25	Trigonometry	Height and distance	Moderate

JEE Main 2020 September 6th Slot 1 Analysis Summary:

- The overall JEE Main 2020 September 6th shift 1 paper is moderate to difficult
- The physics paper was a bit tricky with 3 questions from rotational motion and 3 from magnetic effect of current and magnetism. 2 questions are asked from kinetic theory, electronic devices and oscillation and waves
- The chemistry paper is moderate with 3 questions from hydrocarbon. Most of the questions are asked from inorganic and organic chemistry. More than one questions are asked from the units d and f block, solutions, some basic principles of organic chemistry and equilibrium

- The Mathematics paper is a bit lengthy with moderate to difficult questions. More than one questions are asked from integral calculus, sets relation and function, coordinate geometry, trigonometry, complex numbers, three dimensional geometry and limits continuity and differentiability.

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