



## 2019\_Jee-Main\_Mathematics\_Topic Wise Analysis

Analysis Prepared by Mr. M. Uma Sankar

9th Apr Slot-1

S NO	NAME OF THE TOPIC	Question Based On		LEVEL			Marks With %		
		Theory	Formulae	Easy	Moderate	Tough	NO.of Q's	MARKS	%
<b>I</b>	<b>ALGEBRA</b>	1	9	3	8	0	11	44	36.7%
1	Binomial theorem		1		1		1	4	3.3%
2	Matrix and determinants and linear equations		1	1	1		2	8	6.7%
3	Quadratic equation		1		1		1	4	3.3%
4	Sequences and series		1		1		1	4	3.3%
5	Complex numbers		1		1		1	4	3.3%
6	Mathematical reasoning	1		1			1	4	3.3%
7	Sets and relations		1		1		1	4	3.3%
8	Permutations and combinations		1		1		1	4	3.3%
9	Probability & random variable		1		1		1	4	3.3%
10	Statistics		1	1			1	4	3.3%
11	Logarithms						0	0	0.0%
12	Mathematical induction						0	0	0.0%
<b>II</b>	<b>VECTOR ALGEBRA</b>	0	1	0	1	0	1	4	3.3%
13	Properties of vectors						0	0	0.0%
14	Scalar product		1		1		1	4	3.3%
15	Dot product						0	0	0.0%
16	Triple product						0	0	0.0%
17	Vector equations						0	0	0.0%
<b>III</b>	<b>CO-ORDINATE GEOMETRY</b>	0	4	0	4	0	4	16	13.3%
18	Co-ordinate system						0	0	0.0%
19	straight line & pair of Straight lines		1		1		1	4	3.3%
20	Circles & system of circles		1		1		1	4	3.3%
21	Parabola		1		1		1	4	3.3%
22	Ellipse						0	0	0.0%
23	Hyperbola		1		1		1	4	3.3%
<b>IV</b>	<b>3D-GEOMETRY</b>	0	2	2	0	0	2	8	6.7%
24	Co-ordinate system						0	0	0.0%
25	Dc's & dr's						0	0	0.0%
26	Planes		1	1			1	4	3.3%
27	Lines and planes		1	1			1	4	3.3%
<b>V</b>	<b>CALCULUS</b>	0	12	3	6	2	11	44	36.7%
28	Functions		2	1	1		2	8	6.7%
29	Limits						0	0	0.0%
30	Continuity & differentiability		2	1	1		2	8	6.7%
31	Differentiation						0	0	0.0%
32	Monotonicity & maxima minima and mean-value theorems		1		1		1	4	3.3%
33	Tangents and normals		2		1	1	2	8	6.7%
34	Rate measure & errors		1				0	0	0.0%
35	Indefinite integration		1			1	1	4	3.3%
36	Definite integration		1	1			1	4	3.3%
37	Areas		1		1		1	4	3.3%
38	Differential equations		1		1		1	4	3.3%
<b>VI</b>	<b>TRIGONOMETRY</b>	0	1	1	0	0	1	4	3.3%
39	Trigonometric identities & ratios		1	1			1	4	3.3%
40	Transformations						0	0	0.0%
41	Trigonometric equations						0	0	0.0%
42	Inverse trigonometric functions						0	0	0.0%
43	Properties of triangles						0	0	0.0%
44	Trigonometric curves						0	0	0.0%
45	Heights & distances						0	0	0.0%
<b>VII</b>	<b>MISCELLANEOUS</b>						0	0	0

<b>viii</b>	<b>TOTAL</b>	<b>1</b>	<b>29</b>	<b>9</b>	<b>19</b>	<b>2</b>	<b>30</b>	<b>120</b>	<b>100.0%</b>
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## 2019\_Jee-Main\_Physics\_Topic Wise Analysis

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9th Apr Slot-1

SNO	NAME OF THE TOPIC	Question Based On		LEVEL			Marks With %		
		Theory	Formulae	Easy	Moderate	Tough	NO.of Q's	MARKS	%
<b>I</b>	<b>Mechanics</b>	0	9	5	3	1	9	36	30.0%
1	Units & Measurement		1	1			1	4	3.3%
2	Kinematics		2	1	1		2	8	6.7%
3	Laws of Motion		1	1			1	4	3.3%
4	Work, Power & Energy		1	1			1	4	3.3%
5	Rotational Motions		2		1	1	2	8	6.7%
6	Gravitation		1		1		1	4	3.3%
7	Properties of Solids		0				0	0	0.0%
8	Properties of Liquids		1	1			1	4	3.3%
<b>II</b>	<b>Heat &amp; Thermodynamics</b>	0	3	2	1	0	3	12	10.0%
9	Thermal Properties of Matter		0				0	0	0.0%
10	Thermodynamics		1	1			1	4	3.3%
11	KTG		2	1	1		2	8	6.7%
<b>III</b>	<b>Oscillation &amp; Waves</b>	0	4	1	3	0	4	16	13.3%
12	Simple Harmonic Motion		1		1		1	4	3.3%
13	Sound Waves		3	1	2		3	12	10.0%
<b>IV</b>	<b>Optics</b>	0	2	0	2	0	2	8	6.7%
14	Geometrical Optics & Physical Optics		1		1		1	4	3.3%
15	Wave Optics		1		1		1	4	3.3%
<b>V</b>	<b>Electrodynamics</b>	0	8	4	4	0	8	32	26.7%
16	Electrostatics		1		1		1	4	3.3%
17	Capacitance		1	1			1	4	3.3%
18	Current Electricity		2	2			2	8	6.7%
19	Magnetic Effects of Current		2		2		2	8	6.7%
20	Magnetism & Matter		1	1			1	4	3.3%
21	Electro Magnetic Induction & AC		0				0	0	0.0%
22	EM Waves		1		1		1	4	3.3%
<b>VI</b>	<b>Modern Physics</b>	0	2	1	1	0	2	8	6.7%
23	Atomic Physics		1	1			1	4	3.3%
24	Nuclear Physics		0				0	0	0.0%
25	Dual Nature of Matter		1		1		1	4	3.3%
<b>VII</b>	<b>Electronic Devices</b>		1		1		1	4	3.3%
<b>VIII</b>	<b>Communication Systems</b>		1	1			1	4	3.3%
<b>IX</b>	<b>TOTAL</b>	0	30	14	15	1	30	120	100.0%



## 2019\_Jee-Main\_Chemistry\_Topic Wise Analysis

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SNO	NAME OF THE TOPIC	Question Based On		LEVEL			Marks With %		
		Theory	Formulae	Easy	Moderate	Tough	NO.of Q's	MARKS	%
<b>I</b>	<b>Physical Chemistry</b>	5	4	0	2	7	9	36	30.0%
1	Atomic Structure		1			1	1	4	3.3%
2	Stoichiometry		1			1	1	4	3.3%
3	States of matter	1				1	1	4	3.3%
4	Ionic Equilibrium		1			1	1	4	3.3%
5	Chemical Equilibrium						0	0	0.0%
6	Thermodynamics	1	1		1	1	2	8	6.7%
7	Solid States						0	0	0.0%
8	Solutions & Colligative Properties	1				1	1	4	3.3%
9	Electrochemistry						0	0	0.0%
10	Chemical Kinetics	1				1	1	4	3.3%
11	Surface Chemistry	1			1		1	4	3.3%
<b>II</b>	<b>Inorganic Chemistry</b>	11	0	4	6	1	11	44	36.7%
12	Periodic Properties	1			1		1	4	3.3%
13	Chemical Bonding	2		1	1		2	8	6.7%
14	S-Block Elements	1			1		1	4	3.3%
15	P-Block Elements	1		1			1	4	3.3%
16	Transition elements (d- & f-block elements)	1			1		1	4	3.3%
17	Coordination compounds	3		1	1	1	3	12	10.0%
18	Environmental Chemistry	1		1			1	4	3.3%
19	Hydrogen & Its Compounds						0	0	0.0%
20	Metallurgy	1			1		1	4	3.3%
21	Practical Inorganic Chemistry						0	0	0.0%
<b>III</b>	<b>Organic Chemistry</b>	10	0	2	6	2	10	40	33.3%
22	General Organic Chemistry	4		1	3		4	16	13.3%
23	Hydrocarbons	2			2		2	8	6.7%
24	Alkyl Halides	1				1	1	4	3.3%
25	Phenols						0	0	0.0%
26	Ethers						0	0	0.0%
27	Carbonyl compounds						0	0	0.0%
28	Carboxylic Acids & its Derivatives						0	0	0.0%
29	Nitrogen Containing Compounds	1				1	1	4	3.3%
30	Aromatic Compounds (Benzen)						0	0	0.0%
31	Polymers						0	0	0.0%
32	Biomolecules	1		1			1	4	3.3%
33	Chemistry in Everyday life						0	0	0.0%
34	Practical Organic Chemistry	1			1		1	4	3.3%
<b>IV</b>	<b>TOTAL</b>	26	4	6	14	10	30	120	100.0%