



2019_Jee-Main_Mathematics_Topic Wise Analysis

Analysis Prepared by Mr. M. Uma Sankar

9th Apr Slot-2

S NO	NAME OF THE TOPIC	Question Based On		LEVEL			Marks With %		
		Theory	Formulae	Easy	Moderate	Tough	NO.of Q's	MARKS	%
I	ALGEBRA	1	10	5	6	0	11	44	36.7%
1	Binomial theorem		1	1			1	4	3.3%
2	Matrix and determinants and linear equations		2	1	1		2	8	6.7%
3	Quadratic equation		1		1		1	4	3.3%
4	Sequences and series		2	1	1		2	8	6.7%
5	Complex numbers		1		1		1	4	3.3%
6	Mathematical reasoning	1	1	1	1		2	8	6.7%
7	Sets and relations						0	0	0.0%
8	Permutations and combinations		1		1		1	4	3.3%
9	Probability & random variable						0	0	0.0%
10	Statistics		1	1			1	4	3.3%
11	Logarithms						0	0	0.0%
12	Mathematical induction						0	0	0.0%
II	VECTOR ALGEBRA	0	1	0	0	1	1	4	3.3%
13	Properties of vectors						0	0	0.0%
14	Scalar product						0	0	0.0%
15	Dot product						0	0	0.0%
16	Triple product		1			1	1	4	3.3%
17	Vector equations						0	0	0.0%
III	CO-ORDINATE GEOMETRY	0	4	1	3	0	4	16	13.3%
18	Co-ordinate system						0	0	0.0%
19	straight line & pair of Straight lines		2	1	1		2	8	6.7%
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						0	0	0.0%
IV	3D-GEOMETRY	0	2	0	2	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%
V	CALCULUS	0	10	4	5	1	10	40	33.3%
28	Functions		1		1		1	4	3.3%
29	Limits		1		1		1	4	3.3%
30	Continuity & differentiability		1	1			1	4	3.3%
31	Differentiation						0	0	0.0%
32	Monotonicity & maxima minima and mean-value theorems						0	0	0.0%
33	Tangents and normals						0	0	0.0%
34	Rate measure & errors		1	1			1	4	3.3%
35	Indefinite integration		1			1	1	4	3.3%
36	Definite integration		2	1	1		2	8	6.7%
37	Areas		2	1	1		2	8	6.7%
38	Differential equations		1		1		1	4	3.3%
VI	TRIGONOMETRY	0	2	1	1	0	2	8	6.7%
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		1		1		1	4	3.3%
VII	MISCELLANEOUS						0	0	0
VIII	TOTAL	1	29	11	17	2	30	120	100.0%



2019_Jee-Main_Physics_Topic Wise Analysis

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		Theory	Formulae	Easy	Moderate	Tough	NO.of Q's	MARKS	%
I	Mechanics	0	9	3	6	0	9	36	30.0%
1	Units & Measurement		1	1			1	4	3.3%
2	Kinematics		2	2			2	8	6.7%
3	Laws of Motion		0				0	0	0.0%
4	Work, Power & Energy		2		2		2	8	6.7%
5	Rotational Motions		2		2		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%
II	Heat & Thermodynamics	0	3	2	1	0	3	12	10.0%
9	Thermal Properties of Matter		1	1			1	4	3.3%
10	Thermodynamics		1		1		1	4	3.3%
11	KTG		1	1			1	4	3.3%
III	Oscillation & Waves	0	2	2	0	0	2	8	6.7%
12	Simple Harmonic Motion		2	2			2	8	6.7%
13	Sound Waves		0				0	0	0.0%
IV	Optics	0	3	2	1	0	3	12	10.0%
14	Geometrical Optics & Physical Optics		3	2	1		3	12	10.0%
15	Wave Optics		0				0	0	0.0%
V	Electrodynamics	0	9	3	6	0	9	36	30.0%
16	Electrostatics		1	1			1	4	3.3%
17	Capacitance		1		1		1	4	3.3%
18	Current Electricity		4	2	2		4	16	13.3%
19	Magnetic Effects of Current		2		2		2	8	6.7%
20	Magnetism & Matter		0				0	0	0.0%
21	Electro Magnetic Induction & AC		1		1		1	4	3.3%
22	EM Waves		0				0	0	0.0%
VI	Modern Physics	0	2	2	0	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%
VII	Electronic Devices		1	1				0	0.0%
VIII	Communication Systems		1	1				0	0.0%
IX	TOTAL		30	16	14	0	28	112	93.3%



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	%
I	Physical Chemistry	3	6	4	3	2	9	36	30.0%
1	Atomic Structure	1		1			1	4	3.3%
2	Stoichiometry						0	0	0.0%
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	4	3.3%
7	Solid States		1			1	1	4	3.3%
8	Solutions & Colligative Properties		2	2			2	8	6.7%
9	Electrochemistry		1		1		1	4	3.3%
10	Chemical Kinetics	1			1		1	4	3.3%
11	Surface Chemistry						0	0	0.0%
II	Inorganic Chemistry	11	0	9	2	0	11	44	36.7%
12	Periodic Properties						0	0	0.0%
13	Chemical Bonding	1		1			1	4	3.3%
14	S-Block Elements	1			1		1	4	3.3%
15	P-Block Elements	3		3			3	12	10.0%
16	Transition elements (d- & f-block elements)	1		1			1	4	3.3%
17	Coordination compounds	2		1	1		2	8	6.7%
18	Environmental Chemistry	1		1			1	4	3.3%
19	Hydrogen & Its Compounds						0	0	0.0%
20	Metallurgy	2		2			2	8	6.7%
21	Practical Inorganic Chemistry						0	0	0.0%
III	Organic Chemistry	10	0	4	6	0	10	40	33.3%
22	General Organic Chemistry	2			2		2	8	6.7%
23	Hydrocarbons						0	0	0.0%
24	Alkyl Halides	1		1			1	4	3.3%
25	Phenols						0	0	0.0%
26	Ethers						0	0	0.0%
27	Carbonyl compounds	3			3		3	12	10.0%
28	Carboxylic Acids & its Derivatives	1		1			1	4	3.3%
29	Nitrogen Containing Compounds						0	0	0.0%
30	Aromatic Compounds (Benzen)						0	0	0.0%
31	Polymers	1		1			1	4	3.3%
32	Biomolecules	1			1		1	4	3.3%
33	Chemistry in Everyday life	1		1			1	4	3.3%
34	Practical Organic Chemistry						0	0	0.0%
IV	TOTAL	24	6	17	11	2	30	120	100.0%