



2019_Jee-Main_Mathematics_Topic Wise Analysis

Analysis Prepared by Mr. M. Uma Sankar

10th 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	11	4	7	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	4	3.3%	
7	Sets and relations						0	0	0.0%	
8	Permutations and combinations						0	0	0.0%	
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		1		1		1	4	3.3%	
II	VECTOR ALGEBRA	0	1	1	0	0	1	4	3.3%	
13	Properties of vectors		1	1			1	4	3.3%	
14	Scalar product						0	0	0.0%	
15	Dot product						0	0	0.0%	
16	Triple product						0	0	0.0%	
17	Vector equations						0	0	0.0%	
III	CO-ORDINATE GEOMETRY	0	5	0	5	0	5	20	16.7%	
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		1		1		1	4	3.3%	
23	Hyperbola		1		1		1	4	3.3%	
IV	3 D-GEOMETRY	0	2	0	1	1	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	8	2	4	2	8	32	26.7%	
28	Functions		1			1	1	4	3.3%	
29	Limits		1		1		1	4	3.3%	
30	Continuity & differentiability						0	0	0.0%	
31	Differentiation						0	0	0.0%	
32	Monotonicity & maxima minima and mean-value theorems						0	0	0.0%	
33	Tangents and normals		1			1	1	4	3.3%	
34	Rate measure & errors		1	1			1	4	3.3%	
35	Indefinite integration		2	1	1		2	8	6.7%	
36	Definite integration						0	0	0.0%	
37	Areas		1		1		1	4	3.3%	
38	Differential equations		1		1		1	4	3.3%	
VI	TRIGONOMETRY	0	3	0	1	2	3	12	10.0%	
39	Trigonometric identities & ratios						0	0	0.0%	
40	Transformations						0	0	0.0%	
41	Trigonometric equations						0	0	0.0%	
42	Inverse trigonometric functions		1			1	1	4	3.3%	
43	Properties of triangles		1		1		1	4	3.3%	
44	Trigonometric curves						0	0	0.0%	
45	Heights & distances		1			1	1	4	3.3%	
VII	MISCELLANEOUS	0	0	0	0	0	0	0	0	
VIII	TOTAL	1	30	7	18	5	30	120	100.0%	



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ICON Central Office - Madhapur - Hyderabad

2019_Jee-Main_Physics_Topic Wise Analysis

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10th Apr Slot-2

SNO	NAME OF THE TOPIC	Question Based On		LEVEL			Marks With %		
		Theory	Formulae	Easy	Moderate	Tough	NO.of Q's	MARKS	%
I	Mechanics	0	13	5	8	0	13	52	43.3%
1	Units & Measurement		1	1			1	4	3.3%
2	Kinematics		1		1		1	4	3.3%
3	Laws of Motion		1		1		1	4	3.3%
4	Work, Power & Energy		1	1			1	4	3.3%
5	Rotational Motions		3		3		3	12	10.0%
6	Gravitation		1		1		1	4	3.3%
7	Properties of Solids		2	1	1		2	8	6.7%
8	Properties of Liquids		3	2	1		3	12	10.0%
II	Heat & Thermodynamics	0	2	2	0	0	2	8	6.7%
9	Thermal Properties of Matter		0				0	0	0.0%
10	Thermodynamics		1	1			1	4	3.3%
11	KTG		1	1			1	4	3.3%
III	Oscillation & Waves	0	3	1	2	0	3	12	10.0%
12	Simple Harmonic Motion		1		1		1	4	3.3%
13	Sound Waves		2	1	1		2	8	6.7%
IV	Optics	0	2	1	1	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%
V	Electrodynamics	0	6	4	2	0	6	24	20.0%
16	Electrostatics		0				0	0	0.0%
17	Capacitance		0				0	0	0.0%
18	Current Electricity		2	1	1		2	8	6.7%
19	Magnetic Effects of Current		3	2	1		3	12	10.0%
20	Magnetism & Matter		0				0	0	0.0%
21	Electro Magnetic Induction & AC		0				0	0	0.0%
22	EM Waves		1	1			1	4	3.3%
VI	Modern Physics	0	3	2	1	0	3	12	10.0%
23	Atomic Physics		1		1		1	4	3.3%
24	Nuclear Physics		1	1			1	4	3.3%
25	Dual Nature of Matter		1	1			1	4	3.3%
VII	Electronic Devices		1		1		1	4	3.3%
VIII	Communication Systems		0				0	0	0.0%
IX	TOTAL		30	15	15	0	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	%
I	Physical Chemistry	4	7	1	9	1	11	44	36.7%
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		1		1		1	4	3.3%
6	Thermodynamics		1		1		1	4	3.3%
7	Solid States	1			1		1	4	3.3%
8	Solutions & Colligative Properties		1		1		1	4	3.3%
9	Electrochemistry	1			1		1	4	3.3%
10	Chemical Kinetics		1		1		1	4	3.3%
11	Surface Chemistry	1		1			1	4	3.3%
II	Inorganic Chemistry	9	1	5	5	0	10	40	33.3%
12	Periodic Properties						0	0	0.0%
13	Chemical Bonding						0	0	0.0%
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)	3		2	1		3	12	10.0%
17	Coordination compounds	1	1		2		2	8	6.7%
18	Environmental Chemistry	1		1			1	4	3.3%
19	Hydrogen & Its Compounds	1			1		1	4	3.3%
20	Metallurgy	1		1			1	4	3.3%
21	Practical Inorganic Chemistry						0	0	0.0%
III	Organic Chemistry	9	0	1	7	1	9	36	30.0%
22	General Organic Chemistry	2		1	1		2	8	6.7%
23	Hydrocarbons						0	0	0.0%
24	Alkyl Halides	1			1		1	4	3.3%
25	Phenols	1			1		1	4	3.3%
26	Ethers	1			1		1	4	3.3%
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	1				1	1	4	3.3%
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%
IV	TOTAL	22	8	7	21	2	30	120	100.0%