

**JEE MAINS\_27 JANUARY 2024\_SHIFT-01**

**MATHS PAPER ANALYSIS**

<b>A</b>	<b>SECTION-TRIGONOMETRY</b>	<b>EASY</b>	<b>MODERATE</b>	<b>TOUGH</b>	<b>TOTAL QUESTIONS</b>
1	TRIGONOMETRY RATIO				
2	TRIGONOMETRY EQUATION		1		1
3	INVERSE TRIGONOMETRY FUNCTION				
<b>B</b>	<b>SECTION-ALGEBRA</b>	<b>EASY</b>	<b>MODERATE</b>	<b>TOUGH</b>	<b>TOTAL QUESTIONS</b>
1	QUADRATIC EQUATION				
2	SEQUENCE & SERIES	2			2
3	COMPLEX NUMBER	1			1
4	BINOMIAL THEOREM	2			2
5	PERMUTATION & COMBINATION				
6	PROBABILITY	1			1
7	DETERMINANTS				
8	MATRICES	1	1		2
<b>C</b>	<b>SECTION-COORDINATE GEOMETRY</b>	<b>EASY</b>	<b>MODERATE</b>	<b>TOUGH</b>	<b>TOTAL QUESTIONS</b>
1	STRAIGHT LINE	1			1
2	CIRCLE	1			1
3	CONIC SECTION	1	1		2
4	VECTOR & 3D	2			2
<b>D</b>	<b>SECTION-CALCULUS</b>	<b>EASY</b>	<b>MODERATE</b>	<b>TOUGH</b>	<b>TOTAL QUESTIONS</b>
1	FUNCTION	1			1
2	LIMIT	1			1
3	CONTINUITY & DIFFERENTIABILITY	1			1
4	METHOD OF DIFFERENTIATION	1			1
5	APPLICATION OF DERIVATIVE				
6	INDEFINITE INTEGRATION				
7	DEFINITE INTEGRATION	1	1		2
8	AREA UNDER CURVE				
9	DIFFERENTIAL EQUATION	2	1		3
<b>E</b>	<b>SECTION-JEE MAIN TOPICS</b>	<b>EASY</b>	<b>MODERATE</b>	<b>TOUGH</b>	<b>TOTAL QUESTIONS</b>
1	SETS & RELATION	1			1
2	STATISTICS	1			1

## PHYSICS PAPER ANALYSIS

A	SECTION-MECHANICS	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	UNITS AND DIMENSIONS	1			1
2	ERROR AND MEASUREMENT			1	1
3	KINEMATICS	1			1
4	NLM AND FRICTION				
5	WORK POWER AND ENERGY				
6	CIRCULAR MOTION	1			1
7	CENTRE OF MASS	2			2
8	RIGID BODY DYNAMICS	1			1
9	GRAVITATION	1			1
B	SECTION-FLUID MECHANICS,PROPERTIES OF MATTER	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	FLUID MECHANICS				
2	PROPERTIES OF MATTER(SURFACE TENSION,VISCOSITY,ELASTICITY)	1			1
C	SECTION-OSCILLATIONS AND WAVES	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	SHM	1			1
2	WAVES ON STRING				
3	SOUND WAVES				
D	SECTION-Heat and Thermo	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	CALORIMETRY AND THERMAL EXPANSION	1			1
2	HEAT TRANSFER				
3	KTG AND THERMODYNAMICS		1		1
E	SECTION-OPTICS	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	GEOMETRICAL OPTICS	3			3
2	WAVE OPTICS				
F	SECTION-ELECTROMAGNETISM	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	ELECTRTOSTATICS	1	1		2
2	CURRENT ELECTRICITY	2			2
3	CAPACITANCE	1			1
4	MAGNETIC FIELD AND FORCE	1	1		2
5	EMI	1			1
6	ALTERNATING CURRENT				
G	SECTION-MODERN AND NUCLEAR PHYSICS	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	MODERN PHYSICS	1			1
2	NUCLEAR PHYSICS				
H	SECTION-EMW,SEMICONDUCTORS	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	ELECTROMAGNETIC WAVES	1			1
2	SEMICONDUCTORS	1			1

## CHEMISTRY PAPER ANALYSIS

A	TOPIC	EASY	MODERATE	TOUGH	TOTAL QUESTIONS
1	Periodic Table	1			1
2	Chemical Bonding		1		1
3	Atomic Structure	2			2
4	Mole Concept	1			1
5	Chemical Equilibrium				
6	Redox	3			3
7	IUPAC	2			2
8	Isomerism				
9	GOC	2	2		4
10	POC	1			1
11	Thermodynamic			1	1
12	Ionic Equilibrium	1			1
13	Solution & Collgative Properties	1			1
14	ELECTRO CHEMISTRY		1		1
15	Chemical Kinetics & Radioactivity		1		1
16	p-Block		1		1
17	d & f-Block Elements	1			1
18	Coordination Compound		1		1
19	Halo alkane, Halo arene, Alcohol, Ether	1			1
20	Reduction Oxidation				
21	Carbonyl Compound				
22	Biomolecule	1			1
23	SALT ANYLYSIS	1	1		2
24	AROMATIC COMPOUND	1			1
25	HYDROCARBON	1			1