IIT JEE 2022 – JEE MAIN JUNE ATTEMPT

PHYSICS ANALYSIS



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Unit-Wise Weightage of Questions

All Papers, a total of 360 Questions

Unit	Total	24 S1	24 S2	25 S1	25 S2	26 S1	26 S2	27 S1	27 S2	28 S1	28 S2	29 S1	29 S2
Mechanics 1	101	9	6	8	9	11	8	8	8	8	8	9	9
Mechanics 2	33	2	3	3	0	2	3	4	4	4	4	2	2
Thermodynamics	35	3	4	2	4	2	3	2	4	2	3	3	3
Electromagnetism	99	8	11	9	9	7	7	8	8	8	7	8	9
Miscellaneous (P)	41	3	2	3	4	5	3	3	4	4	5	3	2
Optics	21	2	1	3	2	1	2	2	1	2	1	2	2
Modern Physics	30	3	3	2	2	2	4	3	1	2	2	3	3

Section A (20 Questions Per Paper, Total of 240 Questions)

Unit	Total	24 S1	24 S2	25 S1	25 S2	26 S1	26 S2	27 S1	27 S2	28 S1	28 S2	29 S1	29 S2
Mechanics 1	71	6	5	5	4	7	5	7	6	5	6	9	6
Mechanics 2	20	2	2	1	0	0	2	3	3	3	2	1	1
Thermodynamics	23	2	2	1	3	2	1	1	3	1	3	1	3
Electromagnetism	62	6	9	5	6	5	6	4	3	3	4	5	6
Miscellaneous (P)	28	2	0	3	3	4	2	2	3	4	3	1	1
Optics	12	0	0	3	2	0	1	1	1	2	0	1	1
Modern Physics	24	2	2	2	2	2	3	2	1	2	2	2	2

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Unit-Wise Weightage of Questions

Section B (10 Questions Per Paper, Total of 120 Questions)

Unit	Total	24 S1	24 S2	25 S1	25 S2	26 S1	26 S2	27 S1	27 S2	28 S1	28 S2	29 S1	29 S2
Mechanics 1	30	3	1	3	5	4	3	1	2	3	2	0	3
Mechanics 2	13	0	1	2	0	2	1	1	1	1	2	1	1
Thermodynamics	12	1	2	1	1	0	2	1	1	1	0	2	0
Electromagnetism	37	2	2	4	3	2	1	4	5	5	3	3	3
Miscellaneous (P)	13	1	2	0	1	1	1	1	1	0	2	2	1
Optics	9	2	1	0	0	1	1	1	0	0	1	1	1
Modern Physics	6	1	1	0	0	0	1	1	0	0	0	1	1

Class Wise Weightage

Unit	Total	24 S1	24 S2	25 S1	25 S2	26 S1	26 S2	27 S1	27 S2	28 S1	28 S2	29 S1	29 S2
Class 11	169	14	13	13	13	15	14	14	16	14	15	14	14
Class 12	191	16	17	17	17	15	16	16	14	16	15	16	16

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Chapter-wise Weightage of Questions

Chapter Name	Total	24 S1	24 S2	25 S1	25 S2	26 S1	26 S2	27 S1	27 S2	28 S1	28 S2	29 S1	29 S2
Current Electricity	26	2	2	3	3	1	1	4	2	2	1	3	2
Laws of Motion	24	2	1	3	2	1	2	1	3	1	4	2	2
Thermodynamics	18	1	3	1	0	2	1	1	3	1	1	2	2
Electrostatics	18	1	3	1	1	0	1	0	3	2	2	1	3
Semiconductors	18	1	1	1	2	2	1	1	2	3	2	1	1
Motion In Two Dimensions	14	2	2	0	2	2	0	2	1	1	1	0	1
Capacitance	14	1	1	1	1	1	2	2	1	0	1	1	2
Magnetic Effects of Current	14	2	2	1	1	1	1	0	1	2	1	1	1
Alternating Current	14	2	1	2	2	1	0	1	0	2	1	1	1
Gravitation	13	1	1	1	1	2	1	1	1	1	1	1	1
Waves and Sound	13	1	2	1	0	0	1	1	1	2	2	1	1
Dual Nature of Matter	13	1	1	1	1	1	2	1	1	1	1	1	1
Ray Optics	12	1	1	2	0	1	1	1	1	2	0	1	1
Communication System	12	1	1	1	1	1	1	1	1	1	1	1	1
Motion In One Dimension	11	1	0	0	1	3	1	0	0	1	1	1	2
Rotational Motion	11	1	1	1	2	1	1	0	0	2	0	1	1
Mechanical Properties of Fluids	11	0	0	2	0	1	2	2	1	1	2	0	0
Nuclear Physics	10	1	1	0	1	1	1	0	0	1	1	1	2
Mathematics in Physics	9	0	0	3	1	1	0	1	1	0	0	1	1
Kinetic Theory of Gases	9	1	0	1	2	0	1	1	1	1	1	0	0
Electromagnetic Waves	9	1	0	1	1	2	0	1	1	0	1	1	0
Wave Optics	9	1	0	1	2	0	1	1	0	0	1	1	1
Units and Dimensions	8	1	1	0	0	1	1	0	2	1	0	1	0
Thermal Properties of Matter	8	1	1	0	2	0	1	0	0	0	1	1	1
Oscillations	7	0	1	0	0	0	0	1	2	1	0	1	1
Electromagnetic Induction	7	0	1	1	0	2	2	0	1	0	0	0	0
Atomic Physics	7	1	1	1	0	0	1	2	0	0	0	1	0
Work Power Energy	6	1	0	0	0	0	1	0	0	1	1	1	1
Magnetic Properties of Matter	6	0	1	0	1	1	0	1	0	0	1	1	0
Center of Mass Momentum & Collision	5	0	0	0	0	0	1	3	0	0	0	1	0
Mechanical Properties of Solids	2	1	0	0	0	1	0	0	0	0	0	0	0
Experimental Physics	2	0	0	0	0	0	1	0	0	0	1	0	0

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Section A - Chapter-wise Weightage of Questions

Chapter Name	Total	24 S1	24 S2	25 S1	25 S2	26 S1	26 S2	27 S1	27 S2	28 S1	28 S2	29 S1	29 S2
Electrostatics	16	1	3	1	0	0	0	0	3	2	2	1	3
Motion In Two Dimensions	12	2	1	0	2	1	0	2	1	1	1	0	1
Laws of Motion	12	1	1	0	0	1	1	1	1	0	2	2	2
Magnetic Effects of Current	12	2	2	1	1	1	1	0	0	1	1	1	1
Gravitation	11	1	1	1	0	1	1	1	1	1	1	1	1
Thermodynamics	11	1	2	0	0	2	0	0	2	0	1	1	2
Dual Nature of Matter	11	0	1	1	1	1	1	1	1	1	1	1	1
Semiconductors	10	0	0	1	1	1	1	1	1	3	1	0	0
Communication System	10	1	0	1	1	1	1	0	1	1	1	1	1
Capacitance	9	1	1	0	1	1	2	1	0	0	0	1	1
Current Electricity	9	1	1	1	2	1	1	1	0	0	0	0	1
Units and Dimensions	8	1	1	0	0	1	1	0	2	1	0	1	0
Waves and Sound	8	1	1	0	0	0	0	1	1	2	1	1	0
Electromagnetic Waves	8	1	0	1	1	2	0	1	1	0	1	0	0
Nuclear Physics	8	1	0	0	1	1	1	0	0	1	1	1	1
Rotational Motion	7	0	1	1	1	1	1	0	0	1	0	1	0
Mechanical Properties of Fluids	7	0	0	1	0	0	2	1	1	1	1	0	0
Kinetic Theory of Gases	7	0	0	1	1	0	1	1	1	1	1	0	0
Alternating Current	7	1	1	2	1	0	0	1	0	0	0	1	0
Ray Optics	7	0	0	2	0	0	0	1	1	2	0	0	1
Mathematics in Physics	6	0	0	3	0	0	0	1	1	0	0	1	0
Motion In One Dimension	6	0	0	0	1	2	0	0	0	0	1	1	1
Work Power Energy	6	1	0	0	0	0	1	0	0	1	1	1	1
Magnetic Properties of Matter	6	0	1	0	1	1	0	1	0	0	1	1	0
Thermal Properties of Matter	5	1	0	0	2	0	0	0	0	0	1	0	1
Wave Optics	5	0	0	1	2	0	1	0	0	0	0	1	0
Atomic Physics	5	1	1	1	0	0	1	1	0	0	0	0	0
Oscillations	4	0	1	0	0	0	0	1	1	0	0	0	1
Center of Mass Momentum & Collision	3	0	0	0	0	0	0	2	0	0	0	1	0
Electromagnetic Induction	3	0	0	0	0	1	2	0	0	0	0	0	0
Mechanical Properties of Solids	1	1	0	0	0	0	0	0	0	0	0	0	0
Experimental Physics	0	0	0	0	0	0	0	0	0	0	0	0	0

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Section B - Chapter-wise Weightage of Questions

Chapter Name	Total	24 S1	24 S2	25 S1	25 S2	26 S1	26 S2	27 S1	27 S2	28 S1	28 S2	29 S1	29 S2
Current Electricity	17	1	1	2	1	0	0	3	2	2	1	3	1
Laws of Motion	12	1	0	3	2	0	1	0	2	1	2	0	0
Semiconductors	8	1	1	0	1	1	0	0	1	0	1	1	1
Thermodynamics	7	0	1	1	0	0	1	1	1	1	0	1	0
Alternating Current	7	1	0	0	1	1	0	0	0	2	1	0	1
Motion In One Dimension	5	1	0	0	0	1	1	0	0	1	0	0	1
Waves and Sound	5	0	1	1	0	0	1	0	0	0	1	0	1
Capacitance	5	0	0	1	0	0	0	1	1	0	1	0	1
Ray Optics	5	1	1	0	0	1	1	0	0	0	0	1	0
Rotational Motion	4	1	0	0	1	0	0	0	0	1	0	0	1
Mechanical Properties of Fluids	4	0	0	1	0	1	0	1	0	0	1	0	0
Electromagnetic Induction	4	0	1	1	0	1	0	0	1	0	0	0	0
Wave Optics	4	1	0	0	0	0	0	1	0	0	1	0	1
Mathematics in Physics	3	0	0	0	1	1	0	0	0	0	0	0	1
Thermal Properties of Matter	3	0	1	0	0	0	1	0	0	0	0	1	0
Oscillations	3	0	0	0	0	0	0	0	1	1	0	1	0
Motion In Two Dimensions	2	0	1	0	0	1	0	0	0	0	0	0	0
Center of Mass Momentum & Collision	2	0	0	0	0	0	1	1	0	0	0	0	0
Gravitation	2	0	0	0	1	1	0	0	0	0	0	0	0
Kinetic Theory of Gases	2	1	0	0	1	0	0	0	0	0	0	0	0
Electrostatics	2	0	0	0	1	0	1	0	0	0	0	0	0
Magnetic Effects of Current	2	0	0	0	0	0	0	0	1	1	0	0	0
Dual Nature of Matter	2	1	0	0	0	0	1	0	0	0	0	0	0
Atomic Physics	2	0	0	0	0	0	0	1	0	0	0	1	0
Nuclear Physics	2	0	1	0	0	0	0	0	0	0	0	0	1
Communication System	2	0	1	0	0	0	0	1	0	0	0	0	0
Experimental Physics	2	0	0	0	0	0	1	0	0	0	1	0	0
Mechanical Properties of Solids	1	0	0	0	0	1	0	0	0	0	0	0	0
Electromagnetic Waves	1	0	0	0	0	0	0	0	0	0	0	1	0
Units and Dimensions	0	0	0	0	0	0	0	0	0	0	0	0	0
Work Power Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnetic Properties of Matter	0	0	0	0	0	0	0	0	0	0	0	0	0

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Category A (Cat A) - Single Concept Question
Category B (Cat B) - Mixed Concepts of a Single Chapter
Category C (Cat C) - Mixed Concepts from Multiple Chapters

Chapter-wise Weightage of Questions

Chapter	***Total***	***Cat A***	***Cat B***	***Cat C***
Current Electricity	26	21	5	0
Laws of Motion	24	10	7	7
Thermodynamics	18	14	2	2
Electrostatics	18	9	4	5
Semiconductors	18	10	5	3
Motion In Two Dimensions	14	7	7	0
Capacitance	14	9	3	2
Magnetic Effects of Current	14	6	4	4
Alternating Current	14	7	5	2
Gravitation	13	10	2	1
Waves and Sound	13	8	4	1
Dual Nature of Matter	13	6	5	2
Ray Optics	12	7	5	0
Communication System	12	6	6	0
Motion In One Dimension	11	5	5	1
Rotational Motion	11	3	5	3
Mechanical Properties of Fluids	11	9	0	2
Nuclear Physics	10	7	2	1
Mathematics in Physics	9	4	3	2
Kinetic Theory of Gases	9	4	5	0
Electromagnetic Waves	9	6	3	0
Wave Optics	9	7	2	0
Units and Dimensions	8	1	0	7
Thermal Properties of Matter	8	6	1	1
Oscillations	7	5	1	1
Electromagnetic Induction	7	3	2	2
Atomic Physics	7	3	3	1
Work Power Energy	6	3	1	2
Magnetic Properties of Matter	6	2	4	0
Center of Mass Momentum and Collision	5	3	1	1
Mechanical Properties of Solids	2	1	1	0
Experimental Physics	2	1	0	1

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Category A (Cat A) - Single Concept Question
Category B (Cat B) - Mixed Concepts of a Single Chapter
Category C (Cat C) - Mixed Concepts from Multiple Chapters

Shift-wise Weightage of Questions

	Cat A	Cat B	Cat C
24 June Shift 1	17	8	5
24 June Shift 2	12	9	9
25 June Shift 1	16	12	2
25 June Shift 2	18	10	2
26 June Shift 1	18	6	6
26 June Shift 2	20	6	4
27 June Shift 1	19	7	4
27 June Shift 2	13	8	9
28 June Shift 1	16	8	6
28 June Shift 2	17	13	0
29 June Shift 1	20	7	3
29 June Shift 2	17	9	4