

TEST BOOKLET CODE J12

Part I: Physics

NCERT Chapter No.	Chapter Name	Question Number with Skills Typology			Total Qns	Correct	Incorrect
		Concept/ Fact	Appli- cation	Analysis			
Class: XI							
1	Units and Measurements				0		
2	Motion in a Straight Line			18	1		
3	Motion in a Plane		13		1		
4	Laws of Motion		21		1		
5	Work, Energy and Power		24		1		
6	System of Particles and Rotational Motion		19, 23, 25		3		
7	Gravitation			2	1		
8	Mechanical Properties of Solids		9		1		
9	Mechanical Properties of Fluids		10		1		
10	Thermal Properties of Matter				0		
11	Thermodynamics		3, 29		2		
12	Kinetic Theory				0		
13	Oscillations		7		1		
14	Waves	14			1		
15	Practical Skills in Physics	4			1		

NCERT Chapter No.	Chapter Name	Question Number with Skills Typology			Total Qns	Correct	Incorrect
		Concept/ Fact	Appli- cation	Analysis			
Class: XII							
1	Electric Charges and Fields			16	1		
2	Electrostatic Potential and Capacitance		27	12	2		
3	Current Electricity		30		1		
4	Moving Charges and Magnetism	22		8	2		
5	Magnetism and Matter				0		
6	Electromagnetic Induction	15			1		
7	Alternating Current		26		1		
8	Electromagnetic Waves		28		1		
9	Ray Optics and Optical Instruments		5		1		
10	Wave Optics			11	1		
11	Dual Nature of Radiation and Matter		17		1		
12	Atoms	20			1		
13	Nuclei		1		1		
14	Semiconductor Electronics : Materials, Devices and Simple Circuits		6		1		
15	Practical Skills in Physics				0		

Part II: Chemistry

NCERT Chapter No.	Chapter Name	Question Number with Skills Typology			Total Qns	Correct	Incorrect
		Concept/ Fact	Appli- cation	Analysis			
Class: XI							
1	Some Basic Concepts of Chemistry		60		1		
2	Structure of Atom		51		1		
3	Classification of Elements and Periodicity in Properties				0		
4	Chemical Bonding and Molecular Structure	53			1		
5	Thermodynamics		54		1		
6	Equilibrium	33	55		2		
7	Redox Reactions		52		1		
8	The p-Block Elements (Group 13 & 14)				0		
9	Organic Chemistry- Some Basic Principles and Techniques		49	50	2		
10	Hydrocarbons	44		34	2		
Class: XII							
1	Solutions	36	31, 56		3		
2	Electrochemistry		32, 57, 58		3		
3	Chemical Kinetics		59		1		
4	The p-Block Elements (Gp 15, 16, 17, 18)			37, 39	2		
5	The d- and f-Block Elements			40	1		
6	Coordination Compounds	41	38	42	3		
7	Haloalkanes and Haloarenes	43			1		
8	Alcohols, Phenols and Ethers		45	35	2		
9	Aldehydes, Ketones and Carboxylic Acids		46, 47		2		
10	Amines				0		
11	Biomolecules			48	1		
12	Principles Related to Practical Chemistry				0		



Part III: Mathematics

NCERT Chapter No.	Chapter Name	Question Number with Skills Typology			Total Qns	Correct	Incorrect
		Concept/ Fact	Appli- cation	Analysis			
Class: XI							
1	Sets	89			1		
2	Relations & Functions				0		
3	Trigonometric Functions				0		
4	Complex Numbers and Quadratic Equations	82	62	68, 72	4		
5	Permutations and Combinations			65	1		
6	Binomial Theorem		69, 70	85	3		
7	Sequence and Series				0		
8	Straight Lines		73	64, 90	3		
9	Conic Sections			63	1		
10	Limits and Derivatives		87		1		
11	Statistics	86			1		
12	Probability		88		1		

NCERT Chapter No.	Chapter Name	Question Number with Skills Typology			Total Qns	Correct	Incorrect
		Concept/ Fact	Appli- cation	Analysis			
Class: XII							
1	Relations and Functions		67	78	2		
2	Inverse Trigonometric Functions				0		
3	Matrices				0		
4	Determinants		80		1		
5	Continuity and Differentiability	61			1		
6	Application of Derivatives	75			1		
7	Integrals	66, 74		79, 84	4		
8	Application of Integrals	76			1		
9	Differential Equations	77			1		
10	Vector Algebra			71	1		
11	Three Dimensional Geometry				0		
12	Probability		81, 83		2		



Performance Analyser

with Remedial Measures

Score Calculator

Part/ Subject	Total Questions	Maximum Score	Attempted	Correct	Incorrect	Net Score	Qualifying Marks
Part I : Physics	25	100					85
Part II: Chemistry	25	100					70
Part III: Mathematics	25	100					80

Success Gap = Net Score- Qualifying Score

Net Score = (Correct x4)- (Incorrect x 1)

Question Typology	*Remedial Measures
Conceptual	Revise Theory of Complete Chapter
Application	Revise and Practice Formulae Based Questions
Analysis	Practice Critical Thinking Questions

*NCERT page locator has been provided against each question in the test paper which will help the student to find and revise the concept used in the asked question from NCERT book.