

TEST BOOKLET CODE J13

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			28	1		
2	Motion in a Straight Line		26		1		
3	Motion in a Plane		11		1		
4	Laws of Motion		3	19	2		
5	Work, Energy and Power		6		1		
6	System of Particles and Rotational Motion		4, 12		2		
7	Gravitation		2		1		
8	Mechanical Properties of Solids				0		
9	Mechanical Properties of Fluids		22		1		
10	Thermal Properties of Matter	5	24		2		
11	Thermodynamics		14		1		
12	Kinetic Theory				0		
13	Oscillations		17		1		
14	Waves		7		1		
15	Practical Skills in Physics	18			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		15		1		
2	Electrostatic Potential and Capacitance		10		1		
3	Current Electricity	21	13, 25		3		
4	Moving Charges and Magnetism		29		1		
5	Magnetism and Matter	20			1		
6	Electromagnetic Induction		27		1		
7	Alternating Current		9		1		
8	Electromagnetic Waves	16			1		
9	Ray Optics and Optical Instruments			1	1		
10	Wave Optics		8		1		
11	Dual Nature of Radiation and Matter				0		
12	Atoms		30		1		
13	Nuclei		23		1		
14	Semiconductor Electronics : Materials, Devices and Simple Circuits				0		
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	48			1		
2	Structure of Atom		31, 56		2		
3	Classification of Elements and Periodicity in Properties			32	1		
4	Chemical Bonding and Molecular Structure	52, 57		33	3		
5	Thermodynamics		34, 58		2		
6	Equilibrium	41	35, 59		3		
7	Redox Reactions				0		
8	The p-Block Elements (Group 13 & 14)				0		
9	Organic Chemistry- Some Basic Principles and Techniques	46			1		
10	Hydrocarbons			39,43,44	3		
Class: XII							
1	Solutions				0		
2	Electrochemistry			49	1		
3	Chemical Kinetics		51	50	2		
4	The p-Block Elements (Gp 15, 16, 17, 18)				0		
5	The d- and f-Block Elements	53, 54			2		
6	Coordination Compounds	55		36	2		
7	Haloalkanes and Haloarenes			37, 38	2		
8	Alcohols, Phenols and Ethers			40	1		
9	Aldehydes, Ketones and Carboxylic Acids			45, 60	2		
10	Amines				0		
11	Biomolecules			42	1		
12	Principles Related to Practical Chemistry	47			1		



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				0		
2	Relations & Functions				0		
3	Trigonometric Functions			87	1		
4	Complex Numbers and Quadratic Equations	74	68	62, 78	4		
5	Permutations and Combinations			77, 82	2		
6	Binomial Theorem				0		
7	Sequence and Series	72			1		
8	Straight Lines		76	67	2		
9	Conic Sections	88	71, 73, 79	61, 85	6		
10	Limits and Derivatives				0		
11	Statistics				0		
12	Probability				0		

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				0		
2	Inverse Trigonometric Functions		66		1		
3	Matrices		80		1		
4	Determinants	65			1		
5	Continuity and Differentiability	64			1		
6	Application of Derivatives		63, 75		2		
7	Integrals	70	90	69	3		
8	Application of Integrals		81		1		
9	Differential Equations				0		
10	Vector Algebra		84		1		
11	Three Dimensional Geometry	83			1		
12	Probability		86, 89		2		

Score Calculator

Part/ Subject	Total Questions	Maximum Score	Attempted	Correct	Incorrect	Net Score	Qualifying Marks
Part I : Physics	25	100					75
Part II: Chemistry	25	100					85
Part III: Mathematics	25	100					70

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.