

TEST BOOKLET CODE J14

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		23		1		
2	Motion in a Straight Line		2		1		
3	Motion in a Plane		27		1		
4	Laws of Motion	7			1		
5	Work, Energy and Power				0		
6	System of Particles and Rotational Motion	12			1		
7	Gravitation		25		1		
8	Mechanical Properties of Solids		8	9	2		
9	Mechanical Properties of Fluids		3		1		
10	Thermal Properties of Matter				0		
11	Thermodynamics			5	1		
12	Kinetic Theory		18		1		
13	Oscillations		6	13	2		
14	Waves		2		1		
15	Practical Skills in Physics	16			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		24	20	2		
2	Electrostatic Potential and Capacitance		1		1		
3	Current Electricity		10		1		
4	Moving Charges and Magnetism	17			1		
5	Magnetism and Matter		19		1		
6	Electromagnetic Induction		29		1		
7	Alternating Current	22	30		2		
8	Electromagnetic Waves		28		1		
9	Ray Optics and Optical Instruments		14		1		
10	Wave Optics			15	1		
11	Dual Nature of Radiation and Matter		11		1		
12	Atoms		26		1		
13	Nuclei				0		
14	Semiconductor Electronics : Materials, Devices and Simple Circuits			4	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		31		1		
2	Structure of Atom			32	1		
3	Classification of Elements and Periodicity in Properties	36		37	2		
4	Chemical Bonding and Molecular Structure	38			1		
5	Thermodynamics		60	39	2		
6	Equilibrium				0		
7	Redox Reactions	40			1		
8	The p-Block Elements (Group 13 & 14)			41	1		
9	Organic Chemistry- Some Basic Principles and Techniques			44	1		
10	Hydrocarbons	59		42, 48	3		
Class: XII							
1	Solutions		55	45	2		
2	Electrochemistry	46, 47	56		3		
3	Chemical Kinetics		57		1		
4	The p-Block Elements (Gp 15, 16, 17, 18)				0		
5	The d- and f-Block Elements	50		35, 49	3		
6	Coordination Compounds		58	33, 34	3		
7	Haloalkanes and Haloarenes			43	1		
8	Alcohols, Phenols and Ethers				0		
9	Aldehydes, Ketones and Carboxylic Acids	51, 54			2		
10	Amines	52			1		
11	Biomolecules			53	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				0		
2	Relations & Functions		63	69	2		
3	Trigonometric Functions	82	64, 66, 90	80	5		
4	Complex Numbers and Quadratic Equations	61		67	2		
5	Permutations and Combinations		81	74	2		
6	Binomial Theorem	77			1		
7	Sequence and Series			62	1		
8	Straight Lines				0		
9	Conic Sections	84			1		
10	Limits and Derivatives	87			1		
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	71			1		
2	Inverse Trigonometric Functions	70, 83			2		
3	Matrices		86		1		
4	Determinants	85	68		2		
5	Continuity and Differentiability	72, 73			2		
6	Application of Derivatives	78, 79			2		
7	Integrals	75		76, 89	3		
8	Application of Integrals				0		
9	Differential Equations	88			1		
10	Vector Algebra				0		
11	Three Dimensional Geometry				0		
12	Probability		65		1		

Score Calculator

Part/ Subject	Total Questions	Maximum Score	Attempted	Correct	Incorrect	Net Score	Qualifying Marks
Part I : Physics	25	100					80
Part II: Chemistry	25	100					85
Part III: Mathematics	25	100					75

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.