

# TEST BOOKLET CODE J2

## 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	7			1		
2	Motion in a Straight Line		9		1		
3	Motion in a Plane			11	1		
4	Laws of Motion			13	1		
5	Work, Energy and Power		1		1		
6	System of Particles and Rotational Motion		21		1		
7	Gravitation	20	3		2		
8	Mechanical Properties of Solids		15		1		
9	Mechanical Properties of Fluids			17	1		
10	Thermal Properties of Matter	23			1		
11	Thermodynamics		25		1		
12	Kinetic Theory		28		1		
13	Oscillations		27		1		
14	Waves		30		1		
15	Practical Skills in Physics		29		1		

NCERT Chapter No.	Chapter Name	Question Number with Skills Typology			Total Qns	Correct	Incorrect
		Concept/ Fact	Appli- cation	Analysis			
<b>Class: XII</b>							
1	Electric Charges and Fields		5		1		
2	Electrostatic Potential and Capacitance			24	1		
3	Current Electricity			2	1		
4	Moving Charges and Magnetism		22		1		
5	Magnetism and Matter		4		1		
6	Electromagnetic Induction	12			1		
7	Alternating Current		6		1		
8	Electromagnetic Waves		26		1		
9	Ray Optics and Optical Instruments		8		1		
10	Wave Optics		10		1		
11	Dual Nature of Radiation and Matter		14		1		
12	Atoms			16	1		
13	Nuclei		18		1		
14	Semiconductor Electronics : Materials, Devices and Simple Circuits	19			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			
<b>Class: XI</b>							
1	Some Basic Concepts of Chemistry		43		1		
2	Structure of Atom		57		1		
3	Classification of Elements and Periodicity in Properties				0		
4	Chemical Bonding and Molecular Structure			33, 37, 39	3		
5	Thermodynamics		58		1		
6	Equilibrium			51	1		
7	Redox Reactions				0		
8	The p-Block Elements (Group 13 & 14)				0		
9	Organic Chemistry- Some Basic Principles and Techniques	56			1		
10	Hydrocarbons	38, 44			2		
<b>Class: XII</b>							
1	Solutions		50		1		
2	Electrochemistry	35		31, 60	3		
3	Chemical Kinetics		54, 55, 59		3		
4	The p-Block Elements (Gp 15, 16, 17, 18)			42	1		
5	The d- and f-Block Elements			41	1		
6	Coordination Compounds			32	1		
7	Haloalkanes and Haloarenes	45, 47			2		
8	Alcohols, Phenols and Ethers	40			1		
9	Aldehydes, Ketones and Carboxylic Acids	49		39	2		
10	Amines	48			1		
11	Biomolecules			34, 52	2		
12	Principles Related to Practical Chemistry			46, 53	2		



## 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			66	1		
3	Trigonometric Functions				0		
4	Complex Numbers and Quadratic Equations		70		1		
5	Permutations and Combinations		73		1		
6	Binomial Theorem		82, 88	78	3		
7	Sequence and Series		65, 87		2		
8	Straight Lines	75		89	2		
9	Conic Sections		68		1		
10	Limits and Derivatives	85, 90			2		
11	Statistics			63	1		
12	Probability				0		

NCERT Chapter No.	Chapter Name	Question Number with Skills Typology			Total Qns	Correct	Incorrect
		Concept/ Fact	Appli- cation	Analysis			
<b>Class: XII</b>							
1	Relations and Functions			71	1		
2	Inverse Trigonometric Functions		69		1		
3	Matrices			67	1		
4	Determinants		77		1		
5	Continuity and Differentiability			76	1		
6	Application of Derivatives		72		1		
7	Integrals	74, 79		81	3		
8	Application of Integrals			80	1		
9	Differential Equations	64			1		
10	Vector Algebra	84			1		
11	Three Dimensional Geometry		86	62	2		
12	Probability		61, 83		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					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.