



### TEST BOOKLET CODE J8

### **Part I: Physics**

NCERT	Chapter Name	Question					
Chapter No.	hapter Chapter Name No.		Appli- cation	Analysis	Total Qns	Correct	Incorrect
		Class: XI					
1	Units and Measurements				0		
2	Motion in a Straight Line		14		1		
3	Motion in a Plane			20	1		
4	Laws of Motion		27		1		
5	Work, Energy and Power		4, 30		2		
6	System of Particles and Rotational Motion		18, 26		2		
7	Gravitation			8	1		
8	Mechanical Properties of Solids		25		1		
9	Mechanical Properties of Fluids	5			1		
10	Thermal Properties of Matter	9			1		
11	Thermodynamics	17	1		2		
12	Kinetic Theory	13			1		
13	Oscillations				0		
14	Waves		19		1		
15	Practical Skills in Physics		29		1		

NCERT	Chapter Name	Question					
Chapter No.	Chapter Name	Concept/ Fact	Appli- cation	Analysis	Total Qns	Correct	Incorrect
		Class: XII					
1	Electric Charges and Fields		16	3	2		
2	Electrostatic Potential and Capacitance		23		1		
3	Current Electricity		28		1		
4	Moving Charges and Magnetism		12		1		
5	Magnetism and Matter	15			1		
6	Electromagnetic Induction			2	1		
7	Alternating Current		22		1		
8	Electromagnetic Waves				0		
9	Ray Optics and Optical Instruments		21		1		
10	Wave Optics		6		1		
11	Dual Nature of Radiation and Matter		10		1		
12	Atoms		7		1		
13	Nuclei		24		1		
14	Semiconductor Electronics : Materials, Devices and Simple Circuits	11			1		
15	Practical Skills in Physics				0		

## TEST BOOKLET CODE J8

### Part II: Chemistry

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

# TEST BOOKLET CODE J8

#### **Part III: Mathematics**

NCERT	Chantar Nama	Question	Question Number with Skills Typology				
Chapter No.	Chapter Name	Concept/ Fact	Appli- cation	Analysis	Total Qns	Correct	Incorrect
		Class: XI					
1	Sets				0		
2	Relations & Functions	66			1		
3	Trigonometric Functions				0		
4	Complex Numbers and Quadratic Equations		64, 68	69, 76	4		
5	Permutations and Combinations				0		
6	Binomial Theorem			63	1		
7	Sequence and Series	83			1		
8	Straight Lines	88		81	2		
9	Conic Sections		70, 74	82	3		
10	Limits and Derivatives				0		
11	Statistics		62		1		
12	Probability		65, 85		2		

NCERT	Chapter Name	Question					
Chapter No.	Chapter Name	Concept/ Fact	Appli- cation	Analysis	Total Qns	Correct	Incorrect
		Class: XII					
1	Relations and Functions				0		
2	Inverse Trigonometric Functions		77		1		
3	Matrices			89	1		
4	Determinants	87			1		
5	Continuity and Differentiability	79	61, 73	86	4		
6	Application of Derivatives		71		1		
7	Integrals	72			1		
8	Application of Integrals				0		
9	Differential Equations	67			1		
10	Vector Algebra	75, 84			2		
11	Three Dimensional Geometry	78	80		2		
12	Probability		90		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

<sup>\*</sup>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.