



RAHEIN EDUCATION PVT. LTD.

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(A COMPLETE SOLUTION OF EDUCATION)

**MOVE TO
INNOVATIVE ASSESMENT SYSTEM FOR JEE/ NEET PREPARATION OF CHEMISTRY**

**Under the Guidance of Asst. Prof. Tarun Kumar Gautam (B.Tech, M.Tech, Ph.D. (P))
Ex Faculty of RMIT, Bareilly, KEC Gaziabad, Faculty in Jamia Hamdard, Author of 6 Books**

**ENGLISH MEDIUM
ALL INDIA NEET/JEE SPECIAL TEST SERIES FOR
CHEMISTRY
INDIA'S LONGEST TEST SERIES FOR CHEMISTRY**

100 TESTS: CHAPTER WISE AND TOPIC WISE TEST

Program objective:

This is comprehensive and intensive program focusing on sincere NEET/JEE aspirants. Our experts provides step to step guidance to aspirants for understanding the concepts of physics and preparing them for scoring good marks.

Approach and Strategy:

Our simple practical and focused approach will help aspirants understand the demand of NEET/JEE exam effectively. Our strategy is to constantly innovate to keep the preparation process dynamic and give personalized attention to individual aspirants based on factors like- core competence, availability of time and resource and the requirements of NEET/JEE Exam

No of Mock Test: 100 TESTS: CHAPTER WISE AND TOPIC WISE TEST

Fee: 1000 RS

Nature: Students can attempt the test unlimited

Some Basic Concepts of Chemistry

S.NO.	
Test 1	Significant Figures, Laws of Chemicals Combinations and Mole Concept
Test 2	Percent Composition and Empirical Formula
Test 3	Stoichiometric Calculations
Structure of Atom	
Test 4	Atomic Models and Dual Nature of Electromagnetic Radiation
Test 5	Bohr's model for Hydrogen Atom (Emission and Absorption Spectra)
Test 6	Dual Behaviour of Matter and Heisenberg Uncertainty Principle
Test 7	Quantum Mechanical Model of Atom
Classification of Elements and Periodicity in Properties	
Test 8	Modern Periodic Table
Test 9	Periodic Trends in Properties of Elements
Chemical Bonding and Molecular Structure	
Test 10	Electrovalent Bonding
Test 11	Octet rule, Resonance and Hydrogen Bonding
Test 12	Dipole Moment and Bond Polarity
Test 13	VSEPR Theory and Hybridisation
Test 14	Valence Bond and Molecular Orbital Theory
States of Matter	
Test 15	Gas laws and Ideal gas Equation
Test 16	Kinetic Theory of Gases and Molecular Speeds
Test 17	Van der Waal's Equation and liquefaction of Gases
Test 18	Liquid State
Thermodynamics	
Test 19	First Law and Basic Fundamentals of Thermodynamics
Test 20	Laws of Thermodynamics
Test 21	Entropy and Second Law of Thermodynamics
Test 22	Spontaneity and Gibb's Free Energy
Equilibrium	
Test 23	Law of Mass Action, Equilibrium Constant (K_c and K_p) and its Application
Test 24	Relation between K, Q and G and Factors Effecting Equilibrium
Test 25	Theories of Acids and Bases, Ionic Product of Water and pH Scale
Test 26	Ionisation of Weak Acids and Bases and Relation between K_a and K_b
Test 27	Common Ion Effect, Salt Hydrolysis, Buffer Solutions and Solubility Product
Redox Reaction	
Test 28	Oxidation and Reduction Reactions
Test 29	Oxidation Number
Test 30	Disproportionation and Balancing of Redox Reactions
Test 31	Electrode Potential and Oxidising, Reducing Agents

Hydrogen	
Test 32	Preparation and Properties of Hydrogen
Test 33	Preparation and Properties of Water
Test 34	Preparation and Properties of Hydrogen Peroxide
The s – Block Elements	
Test 35	Preparation and Properties of Alkali Metals and their Compounds
Test 36	Some Important Compounds of Sodium
Test 37	Preparation and Properties of Alkaline Metals and their Compounds
Test 38	Some Important Compounds of Calcium
The p – Block Elements (Group 13 & 14)	
Test 39	Boron Family
Test 40	Carbon Family
Organic Chemistry – Some Basic Principles and Techniques	
Test 41	Classification and Nomenclature of Organic Compounds
Test 42	Isomerism in Organic Compounds
Test 43	Concept of Reaction Mechanism in Organic Compounds
Hydrocarbons	
Test 44	Alkanes
Test 45	Alkenes
Test 46	Alkynes
Test 47	Aromatic Hydrocarbons
Environmental Chemistry	
Test 48	Air Pollution
Test 49	Water and Soil Pollution
The Solid State	
Test 50	Properties and Types of Solids
Test 51	Crystal Structure of Solids
Test 52	Cubic System and Bragg's Equation
Test 53	Imperfection in Solids
Solutions	
Test 54	Solubility and Concentration of Solutions
Test 55	Vapour Pressure, Laws of Solutions and Ideal, Non – ideal Solutions
Test 56	Colligative Properties and Abnormal Molecular Masses
Electrochemistry	
Test 57	Conductance and Conductivity
Test 58	Electrolysis and Types of Electrolysis
Test 59	Cells and Electrode Potential, Nernst Equation
Test 60	Commercial Cells and Corrosion
Chemical Kinetics	

Test 61	Rate of Reaction, Rate Laws and Rate Constant
Test 62	Order of Reaction and Half Life Period
Test 63	Theories of Rate of Reaction
Surface Chemistry	
Test 64	Adsorption
Test 65	Catalysis and Theories of Catalysis
Test 66	Colloids and Emulsions
General Principles and Processes of Isolation of Elements	
Test 67	Occurrence of Metals
Test 68	Metallurgical Processes
Test 69	Purification and Uses of Metals
The p – Block Elements (Group 15, 16, 17 and 18)	
Test 70	Nitrogen Family
Test 71	Oxygen Family
Test 72	Halogen Family
Test 73	Noble Gases
The d –and f – Block Elements	
Test 74	Characteristics of d – Block Elements
Test 75	Compounds of Transition Metals
Test 76	Lanthanoids and Actinoids
Coordination Compounds	
Test 77	Coordination Number, Nomenclature and Isomerism of Coordination Compounds
Test 78	Magnetic Moment, Valence Bond Theory and Crystal Field Theory
Test 79	Organometallic Compounds
Haloalkanes and Haloarenes	
Test 80	Preparation and Properties of Haloalkanes
Test 81	Preparation and Properties of Haloarenes
Test 82	Some Important Polyhalogen Compounds
Alcohols, Phenols and Ethers	
Test 83	Preparation and Properties of Alcohols
Test 84	Preparation and Properties of Phenols
Test 85	Preparation and Properties of Ethers
Aldehydes, Ketones, and Carboxylic Acids	
Test 86	Methods of Preparation of Carbonyl Compounds
Test 87	Properties of Carbonyl Compounds
Test 88	Preparation and Properties of Carboxylic Acids
Amines	
Test 89	Aliphatic and Aromatic Amines

Test 90	Amides, Cyanides and Isocyanides
Test 91	Nitrocompounds, Alkyl Nitrides and Diazonium Salts
Biomolecules	
Test 92	Carbohydrates and Lipids
Test 93	Amino Acids and Proteins
Test 94	Nucleic Acid and Enzymes
Test 95	Vitamins and Hormones
Polymers	
Test 96	Classification of Polymers
Test 97	Preparation and Properties of Polymers
Test 98	Uses of Polymers
Everyday Life	
Test 99	Chemistry in Everyday Life
Nuclear Chemistry	
Test 100	Nuclear Chemistry