

PHYSICS

1. Foundation Physics
2. Units, Dimensions and Measurement
3. Motion in One Dimension
4. Motion in Two Dimensions
5. Newton's Laws of Motion (Without Friction)
6. Newton's Laws of Motion (With Friction)
7. Work, Power and Energy
8. Centre of Mass, Conservation of Linear Momentum and Collisions
9. Dynamics of Rigid Body : Part 1
10. Dynamics of Rigid Body : Part 2
11. Simple Harmonic Motion
12. Waves and Acoustics
13. Gravitation
14. Mechanical Properties of Solids
15. Mechanical Properties of Fluids
16. Thermal Properties of Matter
17. Kinetic Theory of Gases and The Laws of Thermodynamics
18. Geometrical Optics
19. Electric Charges and Field
20. Electrostatic Potential
21. Capacitance
22. Current Electricity : Part 1
23. Current Electricity : Part 2
24. Magnetism : Part 1
25. Magnetism : Part 2
26. Electromagnetic Induction : Part 1
27. Electromagnetic Induction : Part 2
28. Wave Optics
29. Electromagnetic Waves and Dual Nature of Radiation and Matter
30. Modern Physics
31. Electronic Devices and Experimental Skills

CHEMISTRY

1. Some Basic Concepts of Chemistry
2. Structure of Atom
3. Classification of Elements and Periodicity in Properties
4. Chemical Bonding and Molecular Structure
5. General Organic Chemistry : Part 1
6. General Organic Chemistry : Part 2
7. Hydrocarbons
8. States of Matter
9. Thermodynamics
10. Chemical Equilibrium
11. Ionic Equilibrium
12. s-Block Elements
13. Hydrogen
14. Environmental Chemistry
15. Redox Reactions
16. p-Block Elements (Group - 13, 14)
17. Solid State
18. Solutions
19. Electrochemistry
20. Chemical Kinetics
21. Surface Chemistry and Colloidal State
22. Organic Compounds Containing Halogens
23. Alcohols, Phenols and Ethers
24. Aldehydes, Ketones and Carboxylic Acids
25. Organic Compounds Containing Nitrogen
26. General Principles and Processes of Isolation of Elements
27. p-Block Elements (Groups 15 - 18)
28. d- & f-Block Elements
29. Coordination Compounds
30. Biomolecules
31. Polymers
32. Chemistry in Everyday Life
33. Principles Related to Practical Chemistry

MATHS

1. Sets
2. Introduction to Relations and Functions
3. Inequalities and Modulus
4. Logarithm
5. Theory of Equations
6. Trigonometric Ratios and Identities
7. Trigonometric Equations
8. Progression and Series
9. Binomial Theorem
10. Permutation and Combination
11. Coordinate System and Straight Lines
12. Introduction to Three Dimensional Geometry
13. Circle
14. Parabola
15. Ellipse
16. Hyperbola
17. Properties and Solutions of Triangle
18. Introduction to Probability
19. Statistics
20. Introduction to Limit and Differentiation
21. Matrices
22. Determinants
23. Relations and Functions
24. Inverse Trigonometric Functions
25. Limit
26. Continuity and Differentiability
27. Differentiation
28. Monotonicity, Maxima and Minima of Functions
29. Application of Derivatives
30. Indefinite Integration
31. Definite Integration
32. Area
33. Differential Equations
34. Probability
35. Vectors
36. Three-Dimensional Geometry
37. Complex Numbers