

## 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

## 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)

## 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