

Screening cum Scholarship Test Syllabus for DROPPERS' BATCH

PHYSICS

Topic

1. Physical World and Measurement
2. Kinematics
3. Laws of Motion
4. Work, Energy and Power
5. Motion of System of Particles and Rigid Body
6. Gravitation
7. Properties of Bulk Matter
8. Thermodynamics
9. Behaviour of Perfect Gases and Kinetic Theory of Gases
10. Oscillations and Waves
11. Electrostatics
12. Current Electricity
13. Magnetic Effects of Current Electricity
14. Electromagnetic Induction & Alternating Current
15. Electromagnetic Waves
16. Optics
17. Dual Nature of Radiation & Matter
18. Atoms & Nuclei
19. Electronic Devices

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CHEMISTRY

Topics

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. Chemical Thermodynamics
6. Equilibrium
7. Redox Reactions
8. Organic Chemistry: Some basic Principles and Techniques
9. Hydrocarbons
10. Solutions
11. Electrochemistry
12. Chemical Kinetics
13. d - & f - Block Elements
14. Coordination Compounds
15. Haloalkanes & Haloarenes
16. Alcohols, Phenols & Ethers
17. Aldehydes, Ketones & Carboxylic Acids
18. Amines
19. Biomolecules

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MATHS

Topics

1. Sets & Functions
2. Algebra - XI
3. Coordinate Geometry
4. Calculus - XI
5. Statistics & Probability
6. Relations & Functions
7. Algebra - XII
8. Calculus - XII
9. Vectors & Three - Dimensional Geometry
10. Linear Programming
11. Probability

