

## Screening cum Scholarship Test Syllabus for DROPPERS' BATCH

### Physics

#### Topics

1. Basic tools of Mathematics
2. Motion in Straight line
3. Motion in Plane
4. Units & Dimensions
5. Laws of Motion & Friction
6. Circular Motion
7. Work Power Energy
8. Center of Mass, Momentum & Collision
9. Rotational Motion
10. Gravitation
11. Simple Harmonic Motion
12. Wave & Sound
13. Thermal Properties of Matter
14. Thermodynamics
15. Kinetic Theory of Gases
16. Mechanical Properties of Solids & Fluids
17. Electric Charges & Fields
18. Ray Optics & Optical Instruments
19. Electrostatic Potential & Capacitance
20. Current Electricity
21. Wave Optics
22. Moving Charges & Magnetism
23. Magnetism & Matter
24. Electromagnetic Induction
25. Alternating Current
26. Atomic Physics
27. Nuclear Physics
28. Electromagnetic Waves
29. Semiconductor
30. Binary Operations & Logic Gates

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### Chemistry

#### Topics

1. Basics of Chemistry-I
2. Atomic Structure
3. Stoichiometry
4. Periodic Table
5. Chemical Bonding
6. Nomenclature
7. Isomerism
8. General Organic Chemistry
9. Hydro Carbons
10. Arenes
11. Purification of Organic Compounds
12. Hydrogen
13. S-Block
14. P-Block
15. Gaseous State
16. Thermodynamics
17. Thermochemistry
18. Chemical Equilibrium
19. Ionic Equilibrium
20. Basics of Organic Chemistry
21. General Organic Chemistry
22. Hydro Carbons & Arenes
23. Alkyl Halides
24. Liquid Solutions
25. Alcohol Phenol & Ether
26. V-A Elements
27. VI-A Elements
28. VII-A Elements
29. VIII-A Elements
30. Carbonyl Compounds
31. Acids & its Derivatives
32. Nitrogen Compounds
33. Biomolecules
34. Electro Chemistry
35. Solid State
36. Practical Chemistry
37. Chemistry in Everyday Life
38. Metallurgy
39. D & F - Block Elements
40. Coordinate Compounds
41. Surface Chemistry
42. Chemical Kinetics

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### Maths

#### Topics

1. Set Theory
2. Linear Inequalities
3. Logarithms
4. Quadratic Equations-I
5. Statistics
6. Limits
7. Differentiation
8. Relations & Functions
9. Quadratic Equations-II
10. Trigonometric Equations
11. Trigonometric Ratios & Identities
12. Binomial Theorem
13. Arithmetic Progression, Geometric Progression & Harmonic Progression
14. Sequence & Series
15. Pair of Lines
16. Probability
17. Height & Distance
18. 3-Dimensional Geometry
19. Functions
20. Determinants
21. Matrices
22. Indefinite Integration
23. Area of the Curve
24. Vector
25. Linear Programming