



## ARMY TECHNICAL

- **GENERAL KNOWLEDGE & REASONING**
- **MATHEMATICS**
- **PHYSICS**
- **CHEMISTRY**

### GENERAL KNOWLEDGE & REASONING

- ⊙ India and its neighboring countries especially pertaining to History, Culture, Geography, and who's who.
- ⊙ Abbreviations,
- ⊙ Sports,
- ⊙ Awards and Prizes,
- ⊙ Terminology,
- ⊙ Indian Armed Forces,
- ⊙ Continents and Sub Continents
- ⊙ Inventions and Discoveries
- ⊙ The Constitution of India,
- ⊙ International Organizations,
- ⊙ Books and Authors,
- ⊙ Knowledge of Important events that have happened in India and at the world level in recent years,
- ⊙ Current important world events,
- ⊙ Prominent personalities etc.
- ⊙ General Reasoning

### MATHEMATICS

- ⊙ Algebra.
- ⊙ Matrices & Determinants
- ⊙ Analytical Geometry.
- ⊙ Trigonometry.
- ⊙ Integral Calculus.
- ⊙ Differential Calculus.
- ⊙ Probability and Statistics.



- ⊙ Number Systems
- ⊙ Fundamental arithmetical operations
- ⊙ Mensuration
- ⊙ Area, Volume and Surface Area

## **PHYSICS**

- ⊙ Physical Properties and States of Matter,
- ⊙ Mass,
- ⊙ Weight,
- ⊙ Volume,
- ⊙ Density and Specific Gravity,
- ⊙ Principle of Archimedes,
- ⊙ Pressure Barometer,
- ⊙ Motion of objects,
- ⊙ Velocity and Acceleration,
- ⊙ Newton's Laws of Motion,
- ⊙ Force and Momentum,
- ⊙ Parallelogram of Forces,
- ⊙ Stability and Equilibrium of bodies,
- ⊙ Gravitation,
- ⊙ Elementary ideas of work,
- ⊙ Power and Energy,
- ⊙ Heat and its Effects,
- ⊙ Sound waves and their properties,
- ⊙ Reflection and refraction.
- ⊙ Spherical mirrors and Lenses,
- ⊙ Type and properties of the magnet,
- ⊙ Static and Current Electricity,
- ⊙ Conductors and Non-conductors,
- ⊙ Ohms Law,
- ⊙ Simple Electrical Circuits,
- ⊙ Heating.



## CHEMISTRY

- ⦿ Physical and Chemical changes.
  - ⦿ Elements,
  - ⦿ Mixtures and Compounds,
  - ⦿ Symbols,
  - ⦿ Formulae and simple Chemical Equations,
  - ⦿ Law of Chemical Combination,
  - ⦿ Properties of Air and Water,
  - ⦿ Preparation and Properties of Hydrogen, Oxygen, Nitrogen, and Carbon dioxide,
  - ⦿ Oxidation and Reduction,
  - ⦿ Acids, bases, and salts,
  - ⦿ Carbon and its forms,
  - ⦿ Natural and Artificial Fertilizers,
- Elementary ideas about the Structure of Atom, Atomic, Equivalent and Molecular Weights, Valency