

## CBSE Class 12 Physics Viva Questions - getmyuni

- **Laws of Motion:**
  - Newton's laws of motion and their applications.
  - Friction: types and laws of friction.
  - Circular motion: centripetal force and its applications.
- **Work, Energy, and Power:**
  - Work-energy theorem and its applications.
  - Conservation of energy and its applications.
  - Power and its units.
- **Rotational Motion:**
  - Torque and its applications.
  - Moment of inertia and its significance.
  - Angular momentum and its conservation.
- **Gravitation:**
  - Kepler's laws of planetary motion.
  - Gravitational potential energy.
  - Escape velocity.
- **Properties of Bulk Matter:**
  - Elasticity: Young's modulus, bulk modulus, shear modulus.
  - Surface tension and its applications.
  - Viscosity and its applications.
- **Thermodynamics:**
  - Laws of thermodynamics and their significance.
  - Heat engines and refrigerators.
  - Calorimetry and specific heat capacity.
- **Kinetic Theory of Gases:**
  - Kinetic interpretation of temperature.
  - Ideal gas equation and its applications.
  - Degrees of freedom.
- **Oscillations and Waves:**
  - Simple harmonic motion and its characteristics.
  - Resonance and its applications.
  - Types of waves and their properties.
- **Electrostatics:**
  - Coulomb's law and electric field.
  - Electric potential and potential energy.
  - Gauss's law and its applications.
- **Current Electricity:**
  - Ohm's law and its limitations.
  - Kirchhoff's laws and their applications.

- Electrical power and energy.
- **Magnetic Effects of Current and Magnetism:**
  - Biot-Savart law and Ampere's circuital law.
  - Magnetic field due to a current-carrying conductor.
  - Magnetic properties of materials.
- **Electromagnetic Induction and Alternating Currents:**
  - Faraday's law of electromagnetic induction.
  - Lenz's law.
  - AC generators and transformers.
- **Electromagnetic Waves:**
  - Characteristics of electromagnetic waves.
  - Electromagnetic spectrum and its applications.
- **Optics:**
  - Laws of reflection and refraction.
  - Lenses and mirrors.
  - Interference and diffraction.
- **Dual Nature of Matter and Radiation:**
  - Photoelectric effect and its applications.
  - de Broglie hypothesis.
  - Atomic spectra.
- **Nuclei:**
  - Radioactivity and its types.
  - Nuclear fission and fusion.
  - Nuclear energy.
- **Semiconductor Electronics:**
  - Semiconductor diodes and transistors.
  - Logic gates and their applications.