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Class 11 Physics

Important Numericals & Formulas

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Mechanics

- Equations of motion: $v = u + at$; $s = ut + \frac{1}{2}at^2$.
- Newton's second law: $F = ma$; momentum $p = mv$.
- Work-energy theorem and conservation of energy.
- Circular motion: centripetal force $F = mv^2/r$.

Properties of Matter & Thermodynamics

- Pressure $P = F/A$; density = mass/volume.
- Ideal gas equation: $PV = nRT$.
- First law of thermodynamics: $\Delta U = Q - W$.
- Specific heat: $Q = mc\Delta T$.

Oscillations & Waves

- SHM time period: $T = 2\pi\sqrt{m/k}$.
- Wave speed: $v = f\lambda$.
- Simple pendulum: $T = 2\pi\sqrt{L/g}$.
- Practise unit conversions carefully.

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