

**CBSE Class 11 Physics**  
**Practice Paper**  
**Chapter-10 Mechanical Properties of Fluids**

---

**Long Answer Type Questions (5 Marks)**

1. Show that there is always an excess pressure on the Concave side of the meniscus of a liquid. Obtain an expression for the excess pressure inside (i) a liquid drop (ii) liquid bubble (iii) air bubble inside a liquid.
2. State and prove Bernoulli's theorem. Give its limitation. Name any two applications of the principle.
3. Define terminal velocity. Obtain an expression for terminal velocity of a sphere falling through a viscous liquid. Use the formula to explain the observed rise of air bubbles in a liquid.