

MECHANICAL PROPERTIES OF FLUID

density (ρ) = $\frac{\text{mass}}{\text{volume}}$

$\rho_{\text{mix}} = \frac{\text{total mass}}{\text{total volume}}$

Relative density (or) sp. gravity = $\frac{\rho_{\text{subject}}}{\rho_{\text{water}}}$

- $\rho_{\text{water}} = 1 \text{ kg/m}^3$ (1kg water \rightarrow 1 litre)
- $\rho_{\text{oil}} = 0.8 \text{ gm/cm}^3$ (1kg oil \rightarrow 1.25 litre)
- $\rho_{\text{Hg}} = 13.6 \text{ gm/cm}^3$
- $\rho_{\text{milk}} = 1.04 \text{ gm/cm}^3$ (1kg milk \rightarrow 0.96 litre)

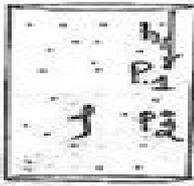
$m_1, V_1, \rho_1 + m_2, V_2, \rho_2 \rightarrow m_1 + m_2, 2V, \rho$

$\rho_{\text{mix}} = \frac{m_1 + m_2}{V_1 + V_2} = \frac{\rho_1 V_1 + \rho_2 V_2}{2V} = \frac{\rho_1 + \rho_2}{2}$

Pressure

Pressure = $\frac{\text{Force}}{\text{Area}}$

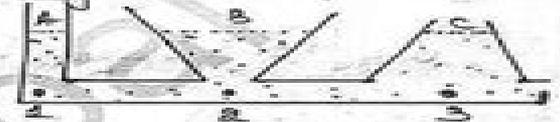
Atmospheric pressure (P_0)
 $P_0 = 1 \text{ atm} = 1.05 \times 10^5 \text{ N/m}^2$
 1 pascal = 1 N/m^2



$P_2 - P_1 = \rho g h$

$P_2 - P_1 = \rho g (h_2 - h_1)$

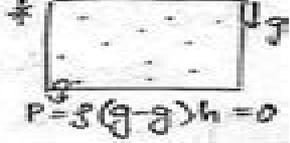
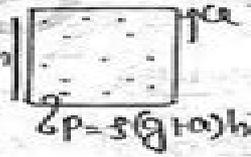
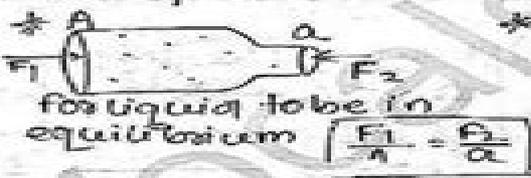
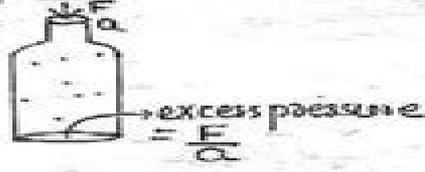
Hydrostatic paradox



$P_A = P_B = P_C$

Pascal's law

\rightarrow extra pressure applied at any point of closed fluid transmits undiminished to every point.

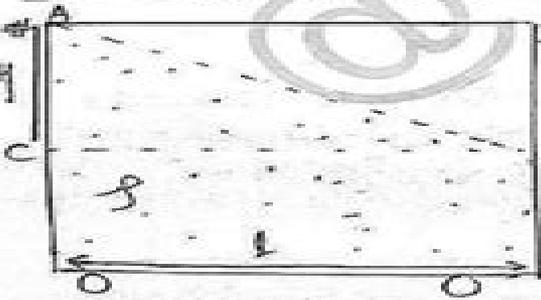


Barometer

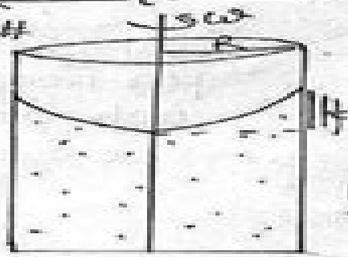
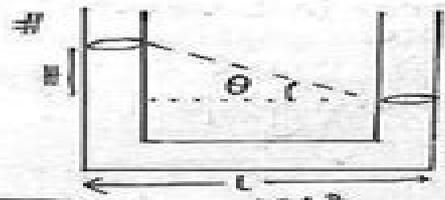
• to measure atmospheric pressure.

$P_0 = \rho_{\text{Hg}} g H_{\text{Hg}}$ | $H = 76 \text{ cm}$ | $P_0 = 1.01 \times 10^5 \text{ N/m}^2$

\rightarrow on vertically accelerating lift height of Hg column $>$ H (76cm)



$P_C - P_A = \rho g H$
 $P_C - P_B = \rho a l$
 $P_A = P_B$
 $\Rightarrow \rho g H = \rho a l$
 $\left[\frac{H}{l} = \frac{a}{g} \right]$
 $\tan \theta = \frac{a}{g}$ | $\sin \theta = \frac{a}{\sqrt{a^2 + g^2}}$



$a = \omega^2 R$
 $\tan \theta = \frac{a}{g}$
 $H = \frac{\omega^2 R^2}{g}$

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AN Whitehead



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