

1) a) Density of silver = 1.3 gm/cm^3
in $\text{kg/m}^3 = 1300 \text{ kg/m}^3$

b) Relative density = 1.3

2) a) in CGS $\rightarrow \frac{150 \text{ g}}{100 \text{ cm}^3} = 1.5 \text{ g/cm}^3$
in SI $\rightarrow 1500 \text{ kg/m}^3$

3) Density decreases with increase in temperature

5) If the density of the substance is more than liquid, it will sink; if less, it will float.

4) The relative density is the comparison of the density of a ^{liquid} substance with density; it has no unit.

6) Law of flotation states that - weight of the floating body = weight of displaced liquid.

7

a)

A

b)

C

c)

B