# Physics

**Question 2.1:**

Fill in the blanks

(a) The volume of a cube of side 1 cm is equal to .....$m^3$

(b) The surface area of a solid cylinder of radius 2.0 cm and height 10.0 cm is equal to . . . $(mm)^2$

(c) A vehicle moving with a speed of 18 km $h^{-1}$ covers....m in 1 s

(d) The relative density of lead is 11.3. Its density is . . . .g $cm^{-3}$ or ___kg $m^{-3}$.

**Answer 2.1:**

(a) 1 cm = $\frac{1}{100}$

Volume of the cube = 1 $cm^3$

But, 1 cm3 = 1 cm × 1 cm × 1 cm = $\left(\frac{1}{100}\right)$m× = $\left(\frac{1}{100}\right)$m× = $\left(\frac{1}{100}\right)$m

∴ 1 $cm^3$ = $10^{-6}$ $m^3$

Hence, the volume of a cube of side 1 cm is equal to $10^{-6}$ $m^3$.

(b) The total surface area of a cylinder of radius $r$ and height $h$ is

$S = 2\pi r (r + h)$. Given that, $r = 2$ cm = 2 × 1 cm = 2 × 10 mm = 20 mm

$h = 10$ cm = 10 × 10 mm = 100 $mm$ = 15072 = 1.5 × $10^4$ $mm^2$

∴ $S = 2 × 3.14 × 20 × (20 + 100)$

(c) Using the conversion,

1 km/h = $\frac{5}{18}$ m/s

18 km/h = 18 × $\frac{5}{18}$ = 5 m/s

Therefore, distance can be obtained using the relation: Distance = Speed × Time = 5 × 1 = 5 m

Hence, the vehicle covers 5 m in 1 s.

(d) Relative density of a substance is given by the relation,

Relative density = $\frac{\text{Density of substance}}{\text{Density of water}}$

Density of water = 1 g/$cm^3$

Density of lead = Relative density of lead × Density of water = 11.3 × 1 = 11.3 g/$cm^3$

Again, 1g = $\frac{1}{100}$ kg

1 $cm^3$ = $10^{-6}$ $m^3$

1 g/$cm^3$ = $\frac{10^{-3}}{10^{-6}}$ kg/$m^3$ = $10^3$ kg/$m^3$

∴ 11.3 g/$cm^3$ = 11.3 × $10^3$ kg/$m^3$

**Question 2.2:**

Fill in the blanks by suitable conversion of units

(a) 1 kg $m^2$ $s^{-2}$ = ....g $cm^2$ $s^{-2}$

(b) 1 m = .....ly

(c) 3.0 m $s^{-2}$ = ....km $h^{-2}$

(d) $G = 6.67 × 10^{-11}$ N $m^2$ $(kg)^{-2}$ = ....$(cm)^3$ $s^{-2}$ $g^{-1}$.

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