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) $1\ cm = \dfrac{1}{100}$

Volume of the cube = 1 cm^3

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

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

$18\ km/h = 18 × \dfrac{5}{18} = 5\ m/s$

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 = $\dfrac{\text{Density of substance}}{\text{Density of water}}$

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, $1 g = \dfrac{1}{100}\ kg$

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

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

∴ 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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C.F. HODGSON

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