Physics

Question 1.1:
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 1.1:

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

Volume of the cube = 1 cm^3

But, $1\ cm^3 = 1\ cm \times 1\ cm \times 1\ cm = \left(\dfrac{1}{100}\right)m \times \left(\dfrac{1}{100}\right)m \times \left(\dfrac{1}{100}\right)m$

$\therefore$ 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, $r = 2\ cm = 2 \times 1\ cm = 2 \times 10\ mm = 20\ mm$
$h = 10\ cm = 10 \times 10\ mm = 100\ mm = 15072 = 1.5 \times 10^4\ mm^2$
$\therefore\ S = 2 \times 3.14 \times 20 \times (20 + 100)$

(c) Using the conversion,

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

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

Therefore, distance can be obtained using the relation: Distance = Speed × Time = $5 \times 1 = 5\ m$
Hence, the vehicle covers 5 m in 1 s.

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

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

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

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

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

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

$\therefore\ 11.3\ g/cm^3 = 11.3 \times 10^3\ kg/m^3$

Question 1.2:
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) $G = 6.67 \times 10^{-11}$ N m^2 $(kg)^{-2}$ = ...$(cm)^3$ s^{-2} g^{-1}.

Physics 1st Paper For Class11 Nctb

Lingsheng Yao

Physics 1st Paper For Class11 Nctb:

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