

# Physics

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(Chapter 2) (Units and Measurement) (Exercises)

(Class 11)

## Question 2.1:

Fill in the blanks

(a) The volume of a cube of side 1 cm is equal to ....m<sup>3</sup>

(b) The surface area of a solid cylinder of radius 2.0 cm and height 10.0 cm is equal to ... (mm)<sup>2</sup>

(c) A vehicle moving with a speed of 18 km h<sup>-1</sup> covers...m in 1 s

(d) The relative density of lead is 11.3. Its density is ....g cm<sup>-3</sup> or ...kg m<sup>-3</sup>.

## Answer 2.1:

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

Volume of the cube = 1 cm<sup>3</sup>

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

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

Hence, the volume of a cube of side 1 cm is equal to 10<sup>-6</sup> m<sup>3</sup>.

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

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

$$h = 10 \text{ cm} = 10 \times 10 \text{ mm} = 100 \text{ mm} = 15072 = 1.5 \times 10^4 \text{ mm}^2$$

$$\therefore S = 2 \times 3.14 \times 20 \times (20 + 100)$$

(c) Using the conversion,

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

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

Therefore, distance can be obtained using the relation: Distance = Speed  $\times$  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,

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

$$\text{Density of water} = 1 \text{ g/cm}^3$$

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

$$\text{Again, } 1 \text{ g} = \frac{1}{1000} \text{ kg}$$

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

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

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

## Question 2.2:

Fill in the blanks by suitable conversion of units

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

(b)  $1 \text{ m} = \dots \text{ ly}$

(c)  $3.0 \text{ m s}^{-2} = \dots \text{ km h}^{-2}$

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

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## **Table of Contents 14 Exemplars Physics Grade11 June**

1. Understanding the eBook 14 Exemplars Physics Grade11 June
  - The Rise of Digital Reading 14 Exemplars Physics Grade11 June
  - Advantages of eBooks Over Traditional Books
2. Identifying 14 Exemplars Physics Grade11 June
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 14 Exemplars Physics Grade11 June
  - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Exemplars Physics Grade11 June

- Personalized Recommendations
- 14 Exemplars Physics Grade11 June User Reviews and Ratings
- 14 Exemplars Physics Grade11 June and Bestseller Lists
- 5. Accessing 14 Exemplars Physics Grade11 June Free and Paid eBooks
  - 14 Exemplars Physics Grade11 June Public Domain eBooks
  - 14 Exemplars Physics Grade11 June eBook Subscription Services
  - 14 Exemplars Physics Grade11 June Budget-Friendly Options
- 6. Navigating 14 Exemplars Physics Grade11 June eBook Formats
  - ePub, PDF, MOBI, and More
  - 14 Exemplars Physics Grade11 June Compatibility with Devices
  - 14 Exemplars Physics Grade11 June Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 14 Exemplars Physics Grade11 June
  - Highlighting and Note-Taking 14 Exemplars Physics Grade11 June
  - Interactive Elements 14 Exemplars Physics Grade11 June
- 8. Staying Engaged with 14 Exemplars Physics Grade11 June
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 14 Exemplars Physics Grade11 June
- 9. Balancing eBooks and Physical Books 14 Exemplars Physics Grade11 June
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 14 Exemplars Physics Grade11 June
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Exemplars Physics Grade11 June
  - Setting Reading Goals 14 Exemplars Physics Grade11 June
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Exemplars Physics Grade11 June

- Fact-Checking eBook Content of 14 Exemplars Physics Grade11 June
- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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