

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 tom³

(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 isg cm⁻³ or ...kg m⁻³.

Answer 2.1:

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

Volume of the cube = 1 cm³

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 10⁻⁶ m³.

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

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

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

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

(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,

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

Density of water = 1 g/cm³

Density of lead = Relative density of lead $\times$ Density of water = 11.3 $\times$ 1 = 11.3 g/cm³

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 June Paper 1 Physics Grade 11

1. Understanding the eBook 14 June Paper 1 Physics Grade 11
 - The Rise of Digital Reading 14 June Paper 1 Physics Grade 11
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 June Paper 1 Physics Grade 11
 - 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 June Paper 1 Physics Grade 11
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 June Paper 1 Physics Grade 11
 - Personalized Recommendations
 - 14 June Paper 1 Physics Grade 11 User Reviews and Ratings
 - 14 June Paper 1 Physics Grade 11 and Bestseller Lists

5. Accessing 14 June Paper 1 Physics Grade 11 Free and Paid eBooks
 - 14 June Paper 1 Physics Grade 11 Public Domain eBooks
 - 14 June Paper 1 Physics Grade 11 eBook Subscription Services
 - 14 June Paper 1 Physics Grade 11 Budget-Friendly Options
6. Navigating 14 June Paper 1 Physics Grade 11 eBook Formats
 - ePub, PDF, MOBI, and More
 - 14 June Paper 1 Physics Grade 11 Compatibility with Devices
 - 14 June Paper 1 Physics Grade 11 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 June Paper 1 Physics Grade 11
 - Highlighting and Note-Taking 14 June Paper 1 Physics Grade 11
 - Interactive Elements 14 June Paper 1 Physics Grade 11
8. Staying Engaged with 14 June Paper 1 Physics Grade 11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 June Paper 1 Physics Grade 11
9. Balancing eBooks and Physical Books 14 June Paper 1 Physics Grade 11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 June Paper 1 Physics Grade 11
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 14 June Paper 1 Physics Grade 11
 - Setting Reading Goals 14 June Paper 1 Physics Grade 11
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 14 June Paper 1 Physics Grade 11
 - Fact-Checking eBook Content of 14 June Paper 1 Physics Grade 11
 - 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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