

# Physics

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(Chapter 1) (Units and Measurement) (Exercises)

(Class 11)

## Question 1.7:

A student measures the thickness of a human hair by looking at it through a microscope of magnification 100. He makes 20 observations and finds that the average width of the hair in the field of view of the microscope is 3.5 mm. What is the estimate on the thickness of hair?

## Answer 1.7:

Magnification of the microscope = 100

Average width of the hair in the field of view of the microscope = 3.5 mm

∴ Actual thickness of the hair is  $\frac{3.5}{100} = 0.035$  mm.

## Question 1.8:

Answer the following:

(a) You are given a thread and a metre scale. How will you estimate the diameter of the thread?

(b) A screw gauge has a pitch of 1.0 mm and 200 divisions on the circular scale. Do you think it is possible to increase the accuracy of the screw gauge arbitrarily by increasing the number of divisions on the circular scale?

(c) The mean diameter of a thin brass rod is to be measured by vernier callipers. Why is a set of 100 measurements of the diameter expected to yield a more reliable estimate than a set of 5 measurements only?

## Answer 1.8:

(a) Wrap the thread on a uniform smooth rod in such a way that the coils thus formed are very close to each other. Measure the length of the thread using a meter scale. The diameter of the thread is given by the relation,  $\text{Diameter} = \frac{\text{Length of thread}}{\text{Number of turns}}$

(b) It is not possible to increase the accuracy of a screw gauge by increasing the number of divisions of the circular scale. Increasing the number divisions of the circular scale will increase its accuracy to a certain extent only.

(c) A set of 100 measurements is more reliable than a set of 5 measurements because random errors involved in the former are very less as compared to the latter.

## Question 1.9:

The photograph of a house occupies an area of  $1.75 \text{ cm}^2$  on a 35 mm slide. The slide is projected on to a screen, and the area of the house on the screen is  $1.55 \text{ m}^2$ . What is the linear magnification of the projector-screen arrangement?

## Answer 1.9:

Area of the house on the slide =  $1.75 \text{ cm}^2$

Area of the image of the house formed on the screen

=  $1.55 \text{ m}^2$

=  $1.55 \times 10^4 \text{ cm}^2$

Arial magnification,  $m_a = \frac{\text{Area of image}}{\text{Area of object}} = \frac{1.55}{1.75} \times 10^4$

∴ Linear magnifications,  $m_l = \sqrt{m_a}$

=  $\sqrt{\frac{1.55}{1.75} \times 10^4} = 94.11$

# Chapter 1 Physics Test

**Anthony S. Fauci**



## **Chapter 1 Physics Test:**

The Top Books of the Year Chapter 1 Physics Test The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Chapter 1 Physics Test : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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**Table of Contents Chapter 1 Physics Test**

1. Understanding the eBook Chapter 1 Physics Test
  - The Rise of Digital Reading Chapter 1 Physics Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 1 Physics Test
  - 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 Chapter 1 Physics Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 1 Physics Test
  - Personalized Recommendations
  - Chapter 1 Physics Test User Reviews and Ratings
  - Chapter 1 Physics Test and Bestseller Lists
5. Accessing Chapter 1 Physics Test Free and Paid eBooks
  - Chapter 1 Physics Test Public Domain eBooks
  - Chapter 1 Physics Test eBook Subscription Services
  - Chapter 1 Physics Test Budget-Friendly Options
6. Navigating Chapter 1 Physics Test eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 1 Physics Test Compatibility with Devices
  - Chapter 1 Physics Test Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 1 Physics Test
  - Highlighting and Note-Taking Chapter 1 Physics Test
  - Interactive Elements Chapter 1 Physics Test
8. Staying Engaged with Chapter 1 Physics Test

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Chapter 1 Physics Test
- 9. Balancing eBooks and Physical Books Chapter 1 Physics Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 1 Physics Test
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 1 Physics Test
  - Setting Reading Goals Chapter 1 Physics Test
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 1 Physics Test
  - Fact-Checking eBook Content of Chapter 1 Physics Test
  - 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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