



# ADAMJEE COACHING CENTRE

Preparation Paper 2023-24

X - Physics

By: Sir Atiq Ahmed

- Q1. Define transverse wave.  
Q2. Write down three differences between transverse and longitudinal waves.  
Q3. Write down three characteristics of electromagnetic waves,  
Q4. Explain briefly the transmission of radio wave through space.  
Q5. Define quality and timbre of sound.  
Q6. How is sound produced?  
Q7. Define simple harmonic motion and prove that the motion of a simple pendulum is simple harmonic motion.  
Q8. Derive the equation for time period of simple pendulum.

$$T = 2\sqrt{\frac{l}{g}}$$

- Q9. Define the following:  
i. Time period      ii. Frequency      iii. Wavelength
- Q10. What is a ripple tank, explain its working.  
Q11. Differentiate between refraction and diffraction.  
Q12. Explain the working and application of SONAR.  
Q13. Explain two use of ultrasound in the medical industry.  
Q14. Explain dispersion of light.  
Q15. Define irregular reflection of light and also write two points of its importance.  
Q16. Write three uses of concave mirror.
- Q17. With the help of ray diagram derive the mirror equation  $\frac{1}{f} = \frac{1}{p} + \frac{1}{q}$
- Q18. Draw ray diagram of compound microscope or Astronomical telescope and explain its working.  
Q19. Draw the diagram of defects of eye. Describe short sightedness and long sightedness.  
Q20. Define the following:  
i. Angle of incident      ii. Angle of refraction

# Adamjee Coaching Physics Notes For Class 10th

**Zhe Xu**



**Adamjee Coaching Physics Notes For Class 10th:**

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### **Table of Contents Adamjee Coaching Physics Notes For Class 10th**

1. Understanding the eBook Adamjee Coaching Physics Notes For Class 10th
  - The Rise of Digital Reading Adamjee Coaching Physics Notes For Class 10th
  - Advantages of eBooks Over Traditional Books
2. Identifying Adamjee Coaching Physics Notes For Class 10th
  - 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 Adamjee Coaching Physics Notes For Class 10th
  - User-Friendly Interface
4. Exploring eBook Recommendations from Adamjee Coaching Physics Notes For Class 10th
  - Personalized Recommendations
  - Adamjee Coaching Physics Notes For Class 10th User Reviews and Ratings

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