

(v) The root mean square speed of the molecules of a gas is proportional to _____.

[T = Absolute temperature of gas]

(a) $\sqrt{T}$

(b) $\frac{1}{\sqrt{T}}$

(c) T

(d) $\frac{1}{T}$

(vi) The unit Wbm^{-2} is equal to _____.

(a) henry

(b) watt

(c) dyne

(d) tesla

(vii) When the bob performs a vertical circular motion and the string rotates in a vertical plane, the difference in the tension in the string at horizontal position and uppermost position is _____.

(a) mg

(b) 2 mg

(c) 3 mg

(d) 6 mg

(viii) A liquid rises in glass capillary tube upto a height of 2.5 cm at room temperature. If another glass capillary tube having radius half that of the earlier tube is immersed in the same liquid, the rise of liquid in it will be _____.

(a) 1.25 cm

(b) 2.5 cm

(c) 5 cm

(d) 10 cm

(ix) In young's double slit experiment the two coherent sources have different amplitudes. If the ratio of maximum intensity to minimum intensity is 16:1, then the ratio of amplitudes of the two source will be _____.

(a) 4 : 1

(b) 5 : 3

(c) 1 : 4

(d) 1 : 16

(x) The equation of a simple harmonic progressive wave travelling on a string is $y = 8 \sin (0.02 x - 4t)$ cm. The speed of the wave is _____.

(a) 10 cm/s

(b) 20 cm/s

(c) 100 cm/s

(d) 200 cm/s

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Daniela Niemeyer



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1. Understanding the eBook Physics 97june 2012 Paper 21
 - The Rise of Digital Reading Physics 97june 2012 Paper 21
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics 97june 2012 Paper 21
 - 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 Physics 97june 2012 Paper 21
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 97june 2012 Paper 21
 - Personalized Recommendations
 - Physics 97june 2012 Paper 21 User Reviews and Ratings
 - Physics 97june 2012 Paper 21 and Bestseller Lists
5. Accessing Physics 97june 2012 Paper 21 Free and Paid eBooks

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- Physics 97june 2012 Paper 21 eBook Subscription Services
- Physics 97june 2012 Paper 21 Budget-Friendly Options
- 6. Navigating Physics 97june 2012 Paper 21 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics 97june 2012 Paper 21 Compatibility with Devices
 - Physics 97june 2012 Paper 21 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics 97june 2012 Paper 21
 - Highlighting and Note-Taking Physics 97june 2012 Paper 21
 - Interactive Elements Physics 97june 2012 Paper 21
- 8. Staying Engaged with Physics 97june 2012 Paper 21
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics 97june 2012 Paper 21
- 9. Balancing eBooks and Physical Books Physics 97june 2012 Paper 21
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics 97june 2012 Paper 21
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics 97june 2012 Paper 21
 - Setting Reading Goals Physics 97june 2012 Paper 21
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics 97june 2012 Paper 21
 - Fact-Checking eBook Content of Physics 97june 2012 Paper 21
 - 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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