

- (iv) Wavelengths of two notes in the air are $\left(\frac{70}{153}\right)^m$ and $\left(\frac{70}{157}\right)^m$. Each of these notes produces 8 beats per second with a tuning fork of fixed frequency. Find the velocity of sound in the air and frequency of the tuning fork.

Q. 2. Attempt any SIX :

[12]

- Draw a diagram showing different stages of projection for artificial satellite.
- State the law of conservation of angular momentum and explain with a suitable example.
- Define the angle of contact and state its any 'two' characteristics.
- With a neat and labelled diagram, explain Ferry's perfectly black body.
- A stone of mass 5 kg, tied to one end of a rope of length 0.8 m, is whirled in a vertical circle. Find the minimum velocity at the highest point and at the midway point. [$g = 9.8 \text{ m/s}^2$]
- The maximum velocity of a particle performing linear S.H.M. is 0.16 m/s. If its maximum acceleration is 0.64 m/s^2 , calculate its period.
- Water rises to a height 3.2 cm in a glass capillary tube. Find the height to which the same water will rise in another glass capillary having half area of cross section.
- A 36 cm long sonometer wire vibrates with frequency of 280 Hz in fundamental mode, when it is under tension of 24.5 N. Calculate linear density of the material of wire.

Q. 3. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- A thin wire of length L and uniform linear mass density ρ is bent into a circular coil. M. I. of the coil about tangential axis in its plane is _____
 (a) $\frac{3\rho L^2}{8\pi^2}$ (b) $\frac{8\pi^2}{3\rho L^2}$ (c) $\frac{3\rho L^3}{8\pi^2}$ (d) $\frac{8\pi^2}{3\rho L^3}$
- The average displacement over a period of S.H.M. is _____
 (A = amplitude of S.H.M.)
 (a) 0 (b) A (c) 2A (d) 4A
- In which of the following substances, surface tension increases with increase in temperature ?
 (a) Copper (b) Molten copper (c) Iron (d) Molten iron
- The ratio of diameters of two wires of the same material and length is $n : 1$. If the same load is applied to both the wires then increase in the length of the thin wire is _____ ($n > 1$).
 (a) n^4 times (b) n^2 times (c) n times (d) n^2 times
- The co-efficient of reflection of an opaque body is 0.16. Its co-efficient of emission is _____.
 (a) 0.94 (b) 0.84 (c) 0.74 (d) 0.64
- Let velocity of a sound wave be ' v ' and ' ω ' be angular velocity. The propagation constant of the wave is _____.
 (a) $\sqrt{\frac{\omega}{v}}$ (b) $\sqrt{\frac{v}{\omega}}$ (c) $\frac{\omega}{v}$ (d) $\frac{v}{\omega}$

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Table of Contents Hsc 2014 Physics Paper Answer

1. Understanding the eBook Hsc 2014 Physics Paper Answer
 - The Rise of Digital Reading Hsc 2014 Physics Paper Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc 2014 Physics Paper Answer
 - 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 Hsc 2014 Physics Paper Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc 2014 Physics Paper Answer
 - Personalized Recommendations
 - Hsc 2014 Physics Paper Answer User Reviews and Ratings

- Hsc 2014 Physics Paper Answer and Bestseller Lists
- 5. Accessing Hsc 2014 Physics Paper Answer Free and Paid eBooks
 - Hsc 2014 Physics Paper Answer Public Domain eBooks
 - Hsc 2014 Physics Paper Answer eBook Subscription Services
 - Hsc 2014 Physics Paper Answer Budget-Friendly Options
- 6. Navigating Hsc 2014 Physics Paper Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc 2014 Physics Paper Answer Compatibility with Devices
 - Hsc 2014 Physics Paper Answer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc 2014 Physics Paper Answer
 - Highlighting and Note-Taking Hsc 2014 Physics Paper Answer
 - Interactive Elements Hsc 2014 Physics Paper Answer
- 8. Staying Engaged with Hsc 2014 Physics Paper Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc 2014 Physics Paper Answer
- 9. Balancing eBooks and Physical Books Hsc 2014 Physics Paper Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc 2014 Physics Paper Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc 2014 Physics Paper Answer
 - Setting Reading Goals Hsc 2014 Physics Paper Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc 2014 Physics Paper Answer
 - Fact-Checking eBook Content of Hsc 2014 Physics Paper Answer
 - 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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