

6. In which of the following devices, the eddy current effect is not used?

(1) Induction furnace
(2) Magnetic braking in train
(3) Electromagnet
(4) Electric heater

Answer (4)

Sol. Electric heater does not involve Eddy currents. It uses Joule's heating effect.

7. A soap bubble, having radius of 1 mm, is blown from a detergent solution having a surface tension of 2.5×10^{-2} N/m. The pressure inside the bubble equals at a point Z_0 below the free surface of water in a container. Taking $g = 10$ m/s², density of water = 10^3 kg/m³, the value of Z_0 is :

(1) 100 cm (2) 10 cm
(3) 1 cm (4) 0.5 cm

Answer (3)

Sol. Excess pressure = $\frac{4T}{R}$. Gauge pressure

$$= \rho g Z_0$$

$$P_0 + \frac{4T}{R} = P_0 + \rho g Z_0$$

$$Z_0 = \frac{4T}{R \times \rho g}$$

$$Z_0 = \frac{4 \times 2.5 \times 10^{-2}}{10^{-3} \times 1000 \times 10} \text{ m}$$

$$Z_0 = 1 \text{ cm}$$

8. Which colour of the light has the longest wavelength?

(1) Red (2) Blue
(3) Green (4) Violet

Answer (1)

Sol. Red has the longest wavelength among the given options.

9. A disc of radius 2 m and mass 100 kg rolls on a horizontal floor. Its centre of mass has speed of 20 cm/s. How much work is needed to stop it?

(1) 3 J (2) 30 kJ
(3) 2 J (4) 1 J

Answer (1)

Sol. Work required = change in kinetic energy

$$\text{Final KE} = 0$$

$$\text{Initial KE} = \frac{1}{2}mv^2 + \frac{1}{2}I\omega^2 = \frac{3}{4}mv^2$$

$$= \frac{3}{4} \times 100 \times (20 \times 10^{-2})^2 = 3 \text{ J}$$

$$|\Delta \text{KE}| = 3 \text{ J}$$

10. The displacement of a particle executing simple harmonic motion is given by

$$y = A_0 + A \sin \omega t + B \cos \omega t$$

Then the amplitude of its oscillation is given by :

(1) $A_0 + \sqrt{A^2 + B^2}$

(2) $\sqrt{A^2 + B^2}$

(3) $\sqrt{A_0^2 + (A+B)^2}$

(4) $A + B$

Answer (2)



$$y = A_0 + A \sin \omega t + B \cos \omega t$$

Equate SHM

$$y' = y - A_0 = A \sin \omega t + B \cos \omega t$$

Resultant amplitude

$$R = \sqrt{A^2 + B^2 + 2AB \cos 90^\circ}$$

$$= \sqrt{A^2 + B^2}$$

11. Two similar thin equi-convex lenses, of focal length f each, are kept coaxially in contact with each other such that the focal length of the combination is F_1 . When the space between the two lenses is filled with glycerine (which has the same refractive index ($\mu = 1.5$) as that of glass) then the equivalent focal length is F_2 . The ratio $F_1 : F_2$ will be :

(1) 2 : 1 (2) 1 : 2

(3) 2 : 3 (4) 3 : 4

Answer (2)

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1. Understanding the eBook Iit Paper 2answer Code K
 - The Rise of Digital Reading Iit Paper 2answer Code K
 - Advantages of eBooks Over Traditional Books
2. Identifying Iit Paper 2answer Code K
 - 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 Iit Paper 2answer Code K
 - User-Friendly Interface
4. Exploring eBook Recommendations from Iit Paper 2answer Code K
 - Personalized Recommendations
 - Iit Paper 2answer Code K User Reviews and Ratings
 - Iit Paper 2answer Code K and Bestseller Lists
5. Accessing Iit Paper 2answer Code K Free and Paid eBooks
 - Iit Paper 2answer Code K Public Domain eBooks
 - Iit Paper 2answer Code K eBook Subscription Services
 - Iit Paper 2answer Code K Budget-Friendly Options
6. Navigating Iit Paper 2answer Code K eBook Formats

- ePub, PDF, MOBI, and More
- Iit Paper 2answer Code K Compatibility with Devices
- Iit Paper 2answer Code K Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Iit Paper 2answer Code K
 - Highlighting and Note-Taking Iit Paper 2answer Code K
 - Interactive Elements Iit Paper 2answer Code K
- 8. Staying Engaged with Iit Paper 2answer Code K
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Iit Paper 2answer Code K
- 9. Balancing eBooks and Physical Books Iit Paper 2answer Code K
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Iit Paper 2answer Code K
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Iit Paper 2answer Code K
 - Setting Reading Goals Iit Paper 2answer Code K
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Iit Paper 2answer Code K
 - Fact-Checking eBook Content of Iit Paper 2answer Code K
 - 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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