

- (vii) 'g' is the acceleration due to gravity on the surface of the Earth and 'R' is the radius of the Earth. Show that acceleration due to gravity at height 'h' above the surface of the Earth is $g_h = g \left(\frac{R}{R+h} \right)^2$.

- (viii) In Melde's experiment, the number of loops on a string changes from 7 to 5 by the addition of 0.015 Kgw. Find the initial tension applied to the string.

Q. 4. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) A planet is revolving around a star in a circular orbit of radius R with a period T. If the gravitational force between the planet and the star is proportional to $R^{-\frac{3}{2}}$, then _____.
- (a) $T^2 \propto R^{\frac{5}{2}}$ (b) $T^2 \propto R^{-\frac{7}{2}}$ (c) $T^2 \propto R^{\frac{3}{2}}$ (d) $T^2 \propto R^4$
- (ii) If 'L' is the angular momentum and 'I' is the moment of inertia of a rotating body, then $\frac{L^2}{2I}$ represents its _____.
- (a) rotational P. E. (b) total energy (c) rotational K. E. (d) translational K.E.
- (iii) A particle executing linear S.H.M. has velocities v_1 and v_2 at distances x_1 and x_2 respectively from the mean position. The angular velocity of the particle is _____.
- (a) $\sqrt{\frac{x_1^2 - x_2^2}{v_2^2 - v_1^2}}$ (b) $\sqrt{\frac{v_2^2 - v_1^2}{x_1^2 - x_2^2}}$ (c) $\sqrt{\frac{x_1^2 + x_2^2}{v_2^2 + v_1^2}}$ (d) $\sqrt{\frac{v_2^2 + v_1^2}{x_1^2 + x_2^2}}$
- (iv) A metal rod having coefficient of linear expansion (α) and Young's modulus (Y) is heated to raise the temperature by $\Delta\theta$. The stress exerted by the rod is _____.
- (a) $\frac{Y\alpha}{\Delta\theta}$ (b) $\frac{Y\Delta\theta}{\alpha}$ (c) $Y\alpha\Delta\theta$ (d) $\frac{\alpha\Delta\theta}{Y}$
- (v) A big drop of radius R is formed from 1000 droplets of water. The radius of a droplet will be _____.
- (a) 10 R (b) $\frac{R}{10}$ (c) $\frac{R}{100}$ (d) $\frac{R}{1000}$
- (vi) Apparent frequency of the sound heard by a listener is less than the actual frequency of sound emitted by source. In this case _____.
- (a) listener moves towards source.
(b) source moves towards listener.
(c) listener moves away from the source.
(d) source and listener move towards each other.
- (vii) The substance which allows heat radiations to pass through is _____.
- (a) iron (b) water vapour (c) wood (d) dry air

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Table of Contents Hsc Oct 2013 Physics Question Paper

1. Understanding the eBook Hsc Oct 2013 Physics Question Paper
 - The Rise of Digital Reading Hsc Oct 2013 Physics Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Oct 2013 Physics Question Paper
 - 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 Oct 2013 Physics Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Oct 2013 Physics Question Paper
 - Personalized Recommendations
 - Hsc Oct 2013 Physics Question Paper User Reviews and Ratings
 - Hsc Oct 2013 Physics Question Paper and Bestseller Lists
5. Accessing Hsc Oct 2013 Physics Question Paper Free and Paid eBooks
 - Hsc Oct 2013 Physics Question Paper Public Domain eBooks
 - Hsc Oct 2013 Physics Question Paper eBook Subscription Services
 - Hsc Oct 2013 Physics Question Paper Budget-Friendly Options

6. Navigating Hsc Oct 2013 Physics Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Oct 2013 Physics Question Paper Compatibility with Devices
 - Hsc Oct 2013 Physics Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Oct 2013 Physics Question Paper
 - Highlighting and Note-Taking Hsc Oct 2013 Physics Question Paper
 - Interactive Elements Hsc Oct 2013 Physics Question Paper
8. Staying Engaged with Hsc Oct 2013 Physics Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Oct 2013 Physics Question Paper
9. Balancing eBooks and Physical Books Hsc Oct 2013 Physics Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Oct 2013 Physics Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Oct 2013 Physics Question Paper
 - Setting Reading Goals Hsc Oct 2013 Physics Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Oct 2013 Physics Question Paper
 - Fact-Checking eBook Content of Hsc Oct 2013 Physics Question Paper
 - 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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