

- (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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Academic Success And Social Power Richard Teese, 2013-04-18 A most significant text that says something new about how student achievement is shaped Richard Teese cuts across much of the recent talk about reform and allows us to think about the issues afresh His findings will fascinate all Professor Simon Marginson Monash University This eye opening study of Australian secondary education looks beyond clichés about excellence to analyse the historically specific nature of the scholarly ideal against which successive generations of Australian students have been judged Drawing on a wealth of strikingly original research Richard Teese offers a penetrating analysis of Victorian secondary schooling in the half century after World War Two This was a era in which higher secondary schooling ceased to be the preserve of an elite and emerged as a system of mass education It was also a period marked by successive waves of reform in curriculum and assessment Yet at the end of it all Australians have been left with a sharply polarised system of schooling in which the most economically vulnerable populations of young people are also those most at risk of educational failure This book asks the hard questions Are our systems of secondary teaching and the expectations they place on students anachronistic in an age of mass education How far is the curriculum itself responsible for the manifest disparities in achievement between sectors and regions and between boys and girls What has been the universities role in the process of reform and counter reform And what have all these upheavals implied for the practice of teaching

Knowledge-building Karl Maton, Susan Hood, Suellen Shay, 2015-10-08 Education and knowledge have never been more important to society yet research is segmented by approach methodology or topic Legitimation Code Theory or LCT extends and integrates insights from Pierre Bourdieu and Basil Bernstein to offer a framework for research and practice that overcomes segmentalism This book shows how LCT can be used to build knowledge about education and society Comprising original papers by an international and multidisciplinary group of scholars Knowledge building offers the first primer in this fast growing approach Through case studies of major research projects Part I provides practical insights into how LCT can be used to build knowledge by enabling dialogue between theory and data in qualitative research bringing together quantitative and qualitative methodologies in mixed methods research relating theory and practice in praxis conducting interdisciplinary studies with systemic functional linguistics Part II offers a series of studies of pressing issues facing knowledge building in education and beyond encompassing diverse subject areas including physics English cultural studies music and design educational sites schooling vocational education and higher education practices of research curriculum pedagogy and assessment both education and informal learning contexts such as museums and masonic lodges Carefully sequenced and interrelated these chapters form a coherent collection that gives a unique insight into one of the most thought provoking and innovative ways of building knowledge about knowledge building in education and society to have emerged this century This book is essential reading for all serious students and scholars of education sociology and linguistics

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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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