

HSC Maharashtra Board question paper: March 2013

Note:

- All question are compulsory
- Neat diagrams must be drawn wherever necessary.
- Figure to the right indicate full marks.
- Use of logarithmic table is allowed.
- All symbols have their usual meaning unless otherwise stated.

PHYSICS: SECTION – I

Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question: [7]

- The moment of inertia of a thin uniform rod of mass M and length L , about an axis passing through a point, midway between the centre and one end, perpendicular to its length is _____.
(A) $\frac{48}{7} ML^2$ (B) $\frac{7}{48} ML^2$ (C) $\frac{1}{48} ML^2$ (D) $\frac{1}{16} ML^2$
- 'n' droplets of equal size of radius r coalesce to form a bigger drop of radius R . The energy liberated is equal to _____. (T = Surface tension of water)
(A) $4\pi R^2 T [n^{\frac{1}{3}} - 1]$ (B) $4\pi r^2 T [n^{\frac{1}{3}} - 1]$
(C) $4\pi R^2 T [n^{\frac{2}{3}} - 1]$ (D) $4\pi r^2 T [n^{\frac{2}{3}} - 1]$
- The buckling of a beam is found to be more if _____.
(A) the breadth of the beam is large.
(B) the beam material has large value of Young's modulus.
(C) the length of the beam is small.
(D) the depth of the beam is small.
- When a transverse wave on a string is reflected from the free end, the phase change produced is _____.
(A) zero rad (B) $\frac{\pi}{2}$ rad (C) $\frac{3\pi}{4}$ rad (D) π rad
- The number of degrees of freedom for a rigid diatomic molecule is _____.
(A) 3 (B) 5 (C) 6 (D) 7
- Two particles perform linear simple harmonic motion along the same path of length $2A$ and period T as shown in the graph below. The phase difference between them is _____.



- (A) zero rad (B) $\frac{\pi}{4}$ rad (C) $\frac{\pi}{2}$ rad (D) $\frac{3\pi}{4}$ rad

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RD Boyd



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Table of Contents Hsc Exam Question Paper 2013 Out

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

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