

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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Table of Contents Hsc Board Physics 1 Question Paper 2013

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

6. Navigating Hsc Board Physics 1 Question Paper 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Board Physics 1 Question Paper 2013 Compatibility with Devices
 - Hsc Board Physics 1 Question Paper 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Board Physics 1 Question Paper 2013
 - Highlighting and Note-Taking Hsc Board Physics 1 Question Paper 2013
 - Interactive Elements Hsc Board Physics 1 Question Paper 2013
8. Staying Engaged with Hsc Board Physics 1 Question Paper 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Board Physics 1 Question Paper 2013
9. Balancing eBooks and Physical Books Hsc Board Physics 1 Question Paper 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Board Physics 1 Question Paper 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Board Physics 1 Question Paper 2013
 - Setting Reading Goals Hsc Board Physics 1 Question Paper 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Board Physics 1 Question Paper 2013
 - Fact-Checking eBook Content of Hsc Board Physics 1 Question Paper 2013
 - 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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