

HSC Maharashtra Board question paper: March 2013

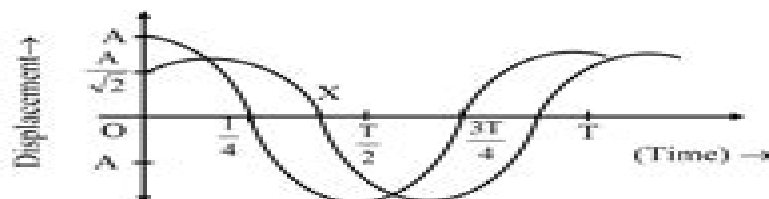
Note:

- 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

Hsc Physics Paper 2013 Answers

Yijin Wang



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Table of Contents Hsc Physics Paper 2013 Answers

1. Understanding the eBook Hsc Physics Paper 2013 Answers
 - The Rise of Digital Reading Hsc Physics Paper 2013 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Physics Paper 2013 Answers
 - 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 Physics Paper 2013 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Physics Paper 2013 Answers
 - Personalized Recommendations
 - Hsc Physics Paper 2013 Answers User Reviews and Ratings
 - Hsc Physics Paper 2013 Answers and Bestseller Lists

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