

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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SJ Ball



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Table of Contents Fmge Question Papers March 2017 2018 Studychacha

1. Understanding the eBook Fmge Question Papers March 2017 2018 Studychacha
 - The Rise of Digital Reading Fmge Question Papers March 2017 2018 Studychacha
 - Advantages of eBooks Over Traditional Books
2. Identifying Fmge Question Papers March 2017 2018 Studychacha
 - 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 Fmge Question Papers March 2017 2018 Studychacha
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fmge Question Papers March 2017 2018 Studychacha
 - Personalized Recommendations
 - Fmge Question Papers March 2017 2018 Studychacha User Reviews and Ratings
 - Fmge Question Papers March 2017 2018 Studychacha and Bestseller Lists
5. Accessing Fmge Question Papers March 2017 2018 Studychacha Free and Paid eBooks
 - Fmge Question Papers March 2017 2018 Studychacha Public Domain eBooks
 - Fmge Question Papers March 2017 2018 Studychacha eBook Subscription Services
 - Fmge Question Papers March 2017 2018 Studychacha Budget-Friendly Options
6. Navigating Fmge Question Papers March 2017 2018 Studychacha eBook Formats
 - ePub, PDF, MOBI, and More
 - Fmge Question Papers March 2017 2018 Studychacha Compatibility with Devices
 - Fmge Question Papers March 2017 2018 Studychacha Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fmge Question Papers March 2017 2018 Studychacha
 - Highlighting and Note-Taking Fmge Question Papers March 2017 2018 Studychacha
 - Interactive Elements Fmge Question Papers March 2017 2018 Studychacha

8. Staying Engaged with Fmge Question Papers March 2017 2018 Studychacha
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fmge Question Papers March 2017 2018 Studychacha
9. Balancing eBooks and Physical Books Fmge Question Papers March 2017 2018 Studychacha
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fmge Question Papers March 2017 2018 Studychacha
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fmge Question Papers March 2017 2018 Studychacha
 - Setting Reading Goals Fmge Question Papers March 2017 2018 Studychacha
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fmge Question Papers March 2017 2018 Studychacha
 - Fact-Checking eBook Content of Fmge Question Papers March 2017 2018 Studychacha
 - 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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