

Question 1 [16 marks]

A 50.0 g object connected to a spring with a force constant at 35.0 N/m oscillates on a horizontal frictionless surface with an amplitude of 4.00 cm. Find:

- (a) the total energy of the system
- (b) the speed of the object when it is 1.0 cm from its equilibrium position
- (c) the kinetic energy when the object is 3.0 cm from its equilibrium position.
- (d) the potential energy when the object is 3.0 cm from its equilibrium position.

Question 2 [16 marks]

When an open metal pipe is cut into two pieces, the lowest resonance for the air column in one piece is 256 Hz and that for the other is 440 Hz.

- (a) What resonant frequency would have been produced by the original pipe?
- (b) How long was the original pipe?
- (c) If we take the two new pieces and close one end of each, what are the lowest frequencies at which they will now resonate?

Note: Assume that the speed of sound is $v = 343$ m/s.

Question 3 [16 Marks]

A thin sheet of mica ($n = 1.58$) is used to cover one slit of a double-slit arrangement. The central point on the screen is now occupied by the fringe that corresponds to the $m = 7$ fringe in the absence of the mica. If $\lambda = 550$ nm, what is the thickness of the mica?

Question 4 [16 Marks]

Silicon has a refractive index of $n = 3.5$ for visible light. To minimize reflective losses at the surface, a silicon solar cell is coated with a thin layer of silicon monoxide ($n = 1.45$).

- (a) Determine the minimum thickness of this layer that will produce the least reflection at a wavelength of 550 nm.
- (b) At what wavelength between 200 and 800 nm will this thin layer produce maximum reflection?

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Table of Contents **Higher Physics Past Papers**

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

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