

The Test Items

- 1/ Two sinusoidal waves, each of wavelength 5 m and amplitude 10 cm, travel in opposite directions on a 20-m long stretched string that is clamped at each end. Excluding the nodes at the ends of the string, how many nodes appear in the resulting standing wave?  
 (A) 3 (B) 4 (C) 7 (D) 10
- 2/ A 0.25-kg block oscillates on the end of the spring with a spring constant of 200 N/m. If the system has an energy of 6.0 J, then the maximum speed of the block is close to:  
 (A) 0.17 m/s (B) 0.24 m/s (C) 4.9 m/s (D) 7.0 m/s
- 3/ A stretched string, clamped at its ends, vibrates in its fundamental frequency. To double the fundamental frequency, one can change the string tension by a factor of:  
 (A) 2 (B) 4 (C)  $\sqrt{2}$  (D)  $1/\sqrt{2}$
- 4/ An object on the end of a spring is set into oscillation by giving it an initial velocity while it is at its equilibrium position. In the first trial the initial speed is  $v$ , and in the second it is  $4v$ . In the second trial:  
 (A) the amplitude is half as great and the maximum acceleration is twice as great  
 (B) the amplitude is twice as great and the maximum acceleration is half as great  
 (C) both the amplitude and the maximum acceleration are twice as great  
 (D) both the amplitude and the maximum acceleration are four times as great
- 5/ When a string is vibrating in a standing wave pattern the power transmitted across an antinode, compared to the power transmitted across a node, is:  
 (A) more (B) less (C) the same (zero) (D) the same (non-zero)
- 6/ A mass-spring system is oscillating with amplitude  $A$ . The kinetic energy will equal the potential energy only when the displacement is:  
 (A) zero (B)  $A/4$  (C)  $A/\sqrt{2}$  (D)  $A/2$
- 7/ A 30-cm long string, with one end clamped and the other free to move transversely, is vibrating in its second harmonic. The wavelength of the constituent traveling waves is:  
 (A) 10 cm (B) 30 cm (C) 40 cm (D) 60 cm
- 8/ If the length of a simple pendulum is doubled, its period will:  
 (A) remain the same (B) be halved (C) be greater by a factor of  $\sqrt{2}$  (D) double
- 9/ A 40-cm long string, with one end clamped and the other free to move transversely, is vibrating in its fundamental standing wave mode. If the wave speed is 120 cm/s, the frequency is:  
 (A) 2 Hz (B) 8 Hz (C) 16 Hz (D) 32 Hz
- 10/ The period of a simple pendulum is 1 s on Earth. When brought to a planet where  $g$  is one-tenth that on Earth, its period becomes:  
 (A) 1 s (B)  $\sqrt{10}$  s (C)  $1/10$  s (D)  $\sqrt{10}$  s
- 11/ The speed of waves in a stretched string depends on:  
 (A) the tension in the string (B) the amplitude of the waves (C) the wavelength of the waves (D) the acceleration due to gravity

$\sum m_i F = \sum m_i a_i$   
 $= F \cdot g$

$\frac{F}{m} = \frac{-kx}{m} = \frac{-4n^2 x}{L^2}$



$\frac{1}{2\pi} \sqrt{\frac{g}{L}}$

$\frac{\omega}{2\pi} = \frac{1}{2\pi} \sqrt{\frac{g}{L}}$

$f = \frac{1}{T}$

$T = 2\pi \sqrt{\frac{L}{g}}$

$f = 2.45$

$\omega = \frac{2\pi}{T} = 2\pi f$

$v = X_0 \sqrt{\frac{k}{m}}$



$2\pi \sqrt{\frac{L}{g}} = 4.74$   
 $6.97$

$\sqrt{10} \sqrt{10} = 10$

$T = \frac{1}{f} = 2\pi \sqrt{\frac{m}{k}}$

$v = \sqrt{\frac{F}{m}} = 2\pi f = \frac{2\pi}{T}$

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**Daniel F McAuley**



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## **Table of Contents Physics Final Exam Answers**

1. Understanding the eBook Physics Final Exam Answers
  - The Rise of Digital Reading Physics Final Exam Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Final Exam 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 Physics Final Exam Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Final Exam Answers
  - Personalized Recommendations
  - Physics Final Exam Answers User Reviews and Ratings
  - Physics Final Exam Answers and Bestseller Lists
5. Accessing Physics Final Exam Answers Free and Paid eBooks

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