

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 (C) 7
 (B) 4 (D) 10
 $f = 2 \cdot 45$
- 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 (C) $\sqrt{2}$
 (B) 4 (D) $1/\sqrt{2}$
 $\omega = \frac{2\pi}{T} = 2\pi f$
- 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
 $v = X_0 \sqrt{\frac{k}{m}}$
- 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 (C) the same (zero)
 (B) less (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 (C) 40 cm
 (B) 30 cm (D) 60 cm
 $2\pi \sqrt{\frac{L}{g}} = 4.74$
 5.97
- 8/ If the length of a simple pendulum is doubled, its period will:
 (A) remain the same (C) be greater by a factor of $\sqrt{2}$
 (B) be halved (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 (C) 16 Hz
 (B) 8 Hz (D) 32 Hz
 $f = \frac{1}{T}$
- 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) $\frac{1}{10}$ s (C) $1/10$ s (D) $\sqrt{10}$ s
 $T = \frac{1}{f} = 2\pi \sqrt{\frac{m}{k}}$
- 11/ The speed of waves in a stretched string depends on:
 (A) the tension in the string (C) the wavelength of the waves
 (B) the amplitude of the waves (D) the acceleration due to gravity
 $v = \sqrt{\frac{k}{m}} = 2\pi f = \frac{2\pi}{T}$

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**Thirumalaisamy P.
Velavancorresponding**



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Table of Contents June 2013 Physics Exam

1. Understanding the eBook June 2013 Physics Exam
 - The Rise of Digital Reading June 2013 Physics Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Physics Exam
 - 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 June 2013 Physics Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Physics Exam
 - Personalized Recommendations

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

- 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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