

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
 $f = 2.45$
- 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 (B) 4 (C) $\sqrt{2}$ (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 (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) $A/2$
 $\omega = \frac{2\pi}{T} = 2\pi f$
- 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
 $2\pi \sqrt{\frac{L}{g}} = 4.74$
 5.97
- 8/ If the length of a simple pendulum is doubled, its period will:
 (A) remain the same (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
 $f = \frac{1}{T}$
- 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
 $T = \frac{1}{f} = 2\pi \sqrt{\frac{L}{g}}$
- 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
 $v = \sqrt{\frac{T}{m}} = 2\pi f = \frac{2\pi}{T}$

Answers For Final Physics Exam 2nd Semester

SJ Ball



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Annual Catalog - United States Air Force Academy United States Air Force Academy, 1971 *United States Air Force Academy* United States Air Force Academy, 1972 Annual Catalogue United States Air Force Academy, 1985 **2003**

Physics Education Research Conference Jeffrey Marx, Scott Franklin, Karen Cummings, 2004-09-09 Papers from an August 2003 conference report on the latest research in physics education Some specific topics covered include empirical investigations of student understanding the myth of gender neutrality using mapped samples to look for sex differences and students representational coherence of Newton's first and second laws Other topics are *Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed* Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics **Pepca's Struggle** Josephine Janezic, 1989 **Physics** Edward C. Gruber, 1963 American Journal of Physics, 2002 El-Hi Textbooks in Print, 1970 Includes related teaching materials *2007 Physics Education Research Conference* Leon Hsu, Charles Henderson, Laura McCullough, 2007-11-26 This text brings together peer reviewed papers from the 2007 Physics Education Research Conference whose theme was Cognitive Science and Physics Education Research The conference brought together researchers studying a wide variety of topics in physics education including transfer of knowledge learning in physics courses at all levels teacher education and cross disciplinary learning This up to date text will be essential reading for anyone in physics education research 2006 Physics Education Research Conference Laura McCullough, Paula Heron, Leon Hsu, 2007-03-05 Syracuse New York 26-27 July 2006 Fourth International World Wide Web Conference : the Web Revolution, December 11-14, 1995, Boston, Massachusetts, USA, 1995 Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K-12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading

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