

Physics Chapter 12—Vibrations and Waves Study Guide

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. Tripling the displacement from equilibrium of an object in simple harmonic motion will change the magnitude of the object's maximum acceleration by what factor?
a. one-third
b. 1
c. 3
d. 9
- _____ 2. A simple pendulum swings in simple harmonic motion. At maximum displacement,
a. the acceleration reaches a maximum.
b. the velocity reaches a maximum.
c. the acceleration reaches zero.
d. the restoring force reaches zero.
- _____ 3. A child on a playground swings through a total of 32° . If the displacement is equal on each side of the equilibrium position, what is the amplitude of this vibration? (Disregard frictional forces acting on the swing.)
a. 8.0°
b. 16°
c. 32°
d. 64°
- _____ 4. For a system in simple harmonic motion, which of the following is the time required to complete a cycle of motion?
a. amplitude
b. period
c. frequency
d. revolution
- _____ 5. For a system in simple harmonic motion, which of the following is the number of cycles or vibrations per unit of time?
a. amplitude
b. period
c. frequency
d. revolution
- _____ 6. How are frequency and period related in simple harmonic motion?
a. They are directly related.
b. They are inversely related.
c. Their sum is constant.
d. Both measure the number of cycles per unit of time.
- _____ 7. If a pendulum is adjusted so that its frequency changes from 10 Hz to 20 Hz, its period will change from n seconds to
a. $n/4$ seconds.
b. $n/2$ seconds.
c. $2n$ seconds.
d. $4n$ seconds.
- _____ 8. By what factor should the length of a simple pendulum be changed in order to triple the period of vibration?
a. 3
b. 6
c. 9
d. 27
- _____ 9. Which of the following features of a given pendulum changes when the pendulum is moved from Earth's surface to the moon?
a. the mass
b. the length
c. the equilibrium position
d. the restoring force
- _____ 10. A wave travels through a medium. As the wave passes, the particles of the medium vibrate in a direction perpendicular to the direction of the wave's motion. The wave is
a. longitudinal.
b. transverse.
c. electromagnetic.
d. surface.

Vibrations And Waves Studt Guide

Rosina Ehmman



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