Chapter 5

Test A

the environment?

a. potential energy

b. kinetic energy

Work and Energy

MULTIPLE CHOICE On the line at the left of each statement, write the letter of the choice that best completes the statement or answers the question.

A force does work on an object if a component of the force a. is perpendicular to the displacement of the object. b. is parallel to the displacement of the object. e. perpendicular to the displacement of the object moves the object along a path that returns to its starting position. d. parallel to the displacement of the object moves the object along a path that returns to its starting position. Which of the following energy forms is NOT involved in hitting a tennis ball? a. kinetic energy b. chemical potential energy c. gravitational potential energy d. elastic potential energy If the only force acting on an object during a given physical process is friction, which of the following assumptions must be made in regard to the object's kinetic energy? a. The kinetic energy decreases. b. The kinetic energy increases. c. The kinetic energy remains constant. d. The kinetic energy decreases and then increases. Which of the following energy forms is associated with an object in motion? a. potential energy e. nonmechanical energy b. elastic potential energy d. kinetic energy Which of the following energy forms is associated with an object due to its position relative to Earth? c. gravitational potential energy a. potential energy b. elastic potential energy d. kinetic energy Which form of energy is involved in weighing fruit on a spring scale? a. kimetic energy c. gravitational potential energy b. nonmechanical energy d. elastic potential energy

Which of the following energy forms is associated with an object's interaction with

mechanical energy

d. nonmechanical energy

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