Practice problems for Test 1 PHYA21-2024

Answers or solutions are given, but you are recommended to solve these problems and justify your answer to learn better.

1. *The Doppler effect is the change in observed frequency due to*
   a. the original frequency of the source.
   b. the type of medium the wave is in.
   c. the motion of the source or observer.
   d. the type of wave.
   e. all of the above

ANS: B

2. *A longitudinal wave lacks which of the following properties?*
   a. speed.
   b. frequency.
   c. wavelength.
   d. amplitude.
   e. A longitudinal wave has all of the above.

ANS: E

3. *Resonance occurs when*
   a. sound changes speed in going from one medium to another.
   b. sound makes multiple reflections.
   c. the amplitude of a wave is amplified.
   d. an object is forced to vibrate at its natural frequency.
   e. all of the above