

EXERCISE MULTIPLE CHOICE QUESTIONS FROM TEXT BOOK

- (1) Which of the following is an example of simple harmonic motion?
 (a) Motion of a simple pendulum (b) The motion of ceiling fan
 (c) The spinning of the Earth on its axis (d) A bouncing ball on floor
- (2) If the mass of the bob of a pendulum is increased by a factor of 3, the period of the pendulum's motion will
 (a) Be increased by a factor of 2 (b) Remain the same
 (c) Be decreased by a factor of 2 (d) Be decreased by a factor of 4
- (3) Which of the following devices can be used to produce both a transverse and longitudinal waves?
 (a) A string (b) A ripple tank (c) A helical spring (slinky) (d) A tuning fork
- (4) Waves transfer
 (a) Energy (b) Frequency (c) Wavelength (d) Velocity
- (5) Which of the following is a method of energy transfer?
 (a) Conduction (b) Radiation (c) Wave motion (d) All of these
- (6) In a vacuum all electromagnetic waves have the same
 (a) Speed (b) Frequency (c) Amplitude (d) Wavelength
- (7) A large ripple tank with a vibrator working at a frequency of 30 Hz produces 25 complete waves in a distance of 50 cm. The velocity of the wave is
 (a) 53 cm^{-1} (b) 60 cms^{-1} (c) 750 cms^{-1} (d) 1500 cms^{-1}
- (8) Which of the following characteristics of a wave is independent of the others
 (a) Speed (b) Frequency (c) Amplitude (d) Wavelength
- (9) The relation between v , f and λ of a wave is
 (a) $vf = \lambda$ (b) $f\lambda = v$ (c) $v\lambda = f$ (d) $v = \frac{\lambda}{f}$

ANSWER KEY

1	2	3	4	5	6	7	8	9
a	b	c	a	d	a	b	c	b