

## Sound

Sr	Questions	Answers Choice
1	the unit of frequency is:	<p>A. <math>\text{hertz}</math></p> <p>B. vibration per second</p> <p>C. cycle per second</p> <p>D. all a, b and c</p>
2	In simple harmonic motion, the acceleration of the body is..... Proportional to the displacement.	<p>A. Inversely</p> <p>B. Directly</p> <p>C. Equally</p> <p>D. Ration</p>
3	The intensity of lawn mover is:	<p>A. <math>10^{-1} \text{ Wm}^{-2}</math></p> <p>B. <math>10^{-2} \text{ Wm}^{-2}</math></p> <p>C. <math>10^{-1} \text{ Wm}^{-3}</math></p> <p>D. <math>10^{-3} \text{ Wm}^{-2}</math></p>
4	the motion in which the friction reduces the mechanical energy of the system as time passes and the amplitude of motion reduces is called:	<p>A. SHM</p> <p>B. Random motion</p> <p>C. Damped motion</p> <p>D. Circulatory motion</p>
5	The advantages of electronic mail are:	<p>A. Fast communication</p> <p>B. Cost free service</p> <p>C. More efficient</p> <p>D. All of these</p>
6	Sound waves are an example of:	<p>A. Transverse waves</p> <p>B. Electromagnetic waves</p> <p>C. Longitudinal waves</p> <p>D. All of these</p>
7	The loudness of sound is most closely related to its:	<p>A. Frequency</p> <p>B. Period</p> <p>C. Wavelength</p> <p>D. Amplitude</p>
8	At mean position kinetic energy of the ball is:	<p>A. Minimum</p> <p>B. Zero</p> <p>C. Maximum</p> <p>D. <math>10 \text{ J}</math></p>
9	The waves which travel in straight line through space and have strong signals are called:	<p>A. Micro waves</p> <p>B. Mechanical waves</p> <p>C. Light waves</p> <p>D. Magnet waves</p>

10	The distance between two consecutive compressions or rarefactions in longitudinal waves is called:	A. Amplitude B. Wavelength C. Half wavelength D. 1/4 wavelength
11	Time period is reciprocal of:	A. $\text{Frequency}$ B. $\text{Cycle}$ C. $\text{Wave-length}$ D. $\text{Amplitude}$
12	The force applied on the mass attached with a spring is represented by:	A. $f$ B. $c$ C. $\text{ext}$ D. $s$
13	The speed of sound in air at 21 °C is:	A. 336 $\text{ms}^{-1}$ B. 343 $\text{ms}^{-1}$ C. 430 $\text{ms}^{-1}$ D. 470 $\text{ms}^{-1}$
14	High pitch means:	A. High wavelength B. High frequency C. High time period D. High energy
15	Astronauts in space need to communicate with each other by radio links because:	A. Sound waves travel very slowly in space. B. Sound waves travel very fast in space C. Sound waves cannot travel in space D. Sound waves have low frequency in space
16	The character by which loud and faint sound can be distinguished is called:	A. Pitch B. Quality C. Loudness D. Intensity
17	The value of acceleration in simple harmonic motion at mean position is:	A. $\text{Maximum}$ B. $\text{Zero}$ C. $10 \text{ N}$ D. Both a and b
18	The disturbance travelling in a medium is called:	A. $\text{Wave motion}$ B. $\text{Simple harmonic motion}$ C. Motion D. both a and b
19	Ripple tank is an instrument which is used to study the characteristics of:	A. $\text{Mechanical waves}$ B. $\text{Light waves}$ C. $\text{Radio waves}$ D. $\text{Electromagnet waves}$
20	the time period of body attached to spring depends on:	A. $\text{mass}$ B. $\text{gravitational constant}$ C. $\text{length}$ D. $\text{amplitude}$

