Exercise MCQs

Sr. No.	Questions	A	B	C	D
1	Which is an example of a longitudinal wave?	✓sound wave	light wave	radio wave	water wave
2	How does sound travel from its source to your ear?	✓by changes in air pressure	by vibrations in wires or strings	by electromagnetic wave	by infrared waves
3	Which form of energy is sound?	Electrical	✓mechanical	thermal	Chemical
4	Astronauts in space need to communicate with each other by radio links because	sound waves travel very slowly in space	sound waves travel very fast in space	✓sound waves cannot travel in space	sound waves have low frequency in space
5	The loudness of a sound is most closely related to its **OR** The loudness of a sound mostly depend upon	Frequency	Period	wavelength	✓Amplitude
6	For a normal person, audible frequency range for sound wave lies between	10 Hz and 10 kHz	✓20 Hz and 20 kHz	25 Hz and 25 kHz	30 Hz and 30 kHz
7	When the frequency of a sound wave is increased, which of the following will decrease? i. wavelength ii. period iii. Amplitude	i only	iii only	✓i and ii only	i and iii only

Additional MCQs

Sr. No.	Questions	A	B	C	D
1	SI unit of intensity	Wm^{-1}	✓Wm^{-2}	Wm	Wm^{2}
2	Speed of sound at room temperature is	320 ms^{-1}	330 ms^{-1}	✓340 ms^{-1}	350 ms^{-1}
3	The sensation of sound persist in our mind is	0.01 s	✓0.1 s	0.02 s	0.2 s
4	One Bel is equal to	40 dB	20 dB	90 dB	✓10 dB
5	The intensity level of rusting of leaves is	✓10 dB	20 dB	30 dB	40 dB
6	The sound level of whisper is	10 dB	✓30 dB	40 dB	90 dB
7	The intensity level of fast train siren	150 dB	✓130 dB	100 dB	120 dB
8	In general, the speed of sound is greater in	Gases	Liquids	✓Solids	None of these
9	The consecutive waves compression and rarefactions is called	Frequency	Time period	Focal length	✓Wavelength
10	If speed of sound wave is 340 ms^{-1} and wavelength 0.5 m, then calculate frequency	340 Hz	0.5 Hz	✓680 Hz	170 Hz
11	Speed of sound in distilled water at 25°C is	7478 ms^{-1}	7488 ms^{-1}	✓1498 ms^{-1}	1508 ms^{-1}
13	The speed of sound in air at 25°C	✓1246 kmh^{-1} **OR** 346 ms^{-1}	1264 kmh^{-1}	1346 kmh^{-1}	1364 kmh^{-1}
14	The speed of sound in air at 0°C	317 ms^{-1}	386 ms^{-1}	346 ms^{-1}	✓331 ms^{-1}
15	The speed of sound in wood at 25°C	5950 ms^{-1}	5960 ms^{-1}	3980 ms^{-1}	✓2000 ms^{-1}
16	The speed of sound in liquid is _____ than that of gas	3 times	4 times	✓5 times	15 times
17	The speed of sound in solid is _____ greater than that of gases	3 times	4 times	5 times	✓15 times
18	The intensity level of siren is	150 dB	130 dB	100 dB	✓120 dB