MULTIPLE CHOICE QUESTIONS

1.	A list of mediums is given below (i) wood (ii) water	ow. (iii) air (iv) vacuum
	In which of these mediums can sound travel?	
	(a) i & ii only (b) i, ii & iii only	(c) iii & iv only (d) ii, iii & iv only
2.	The loudness of sound depends on:	
	(a) its amplitude.(b) its frequency.	(c) its time period.(d) its speed.
3.	Which of the following statements are correct? (i) Sound is produced by vibrations. (ii) Sound requires a medium for propagation. (iii) Light and sound both require a medium for propagation. (iv) Sound travels slower than light. (a) i & ii only (b) i, ii & iii only (c) ii, iii & iv only (d) i, ii & iv only	
4.	An object is vibrating at 50 he (a) 0.02 s (b) 2 s	rtz. What is its time period? (c) 0.2 s (d) 20.0 s
5.	In order to reduce the loudness of a sound we have to (a) decrease its frequency of vibration of the sound. (b) increase its frequency of vibration of the sound. (c) decrease its amplitude of vibration of the sound. (d) increase its amplitude of vibration of the sound.	
6.	Loudness of sound is measure	ed in units of

(c) metre (m)

(d) metre/second (m/s)

(a) decibel (dB)

(b) hertz (Hz)

- 7. The loudness of sound is determined by the
 - (a) amplitude of vibration
 - (b) ratio of amplitude and frequency of vibration
 - (c) frequency of vibration
 - (d) product of amplitude and frequency of vibration
- 8. 1 hertz is equal to
 - (a) 1 vibration per minute
 - (b) 10 vibrations per minute
 - (c) 60 vibrations per minute
 - (d) 600 vibrations per minute
- 9. Pitch of sound is determined by its
 - (a) frequency

(c) speed

(b) amplitude

- (d) loudness
- 10. Ultrasound has frequency of vibration
 - (a) between 20 and 20,000 Hz
 - (b) below 20 Hz
 - (c) above 20,000 Hz
 - (d) between 500 and 10,000 Hz

VERY SHORT ANSWER QUESTIONS

- 11. Lightning can be seen the moment it occurs. Paheli observes lightning in her area. She hears the sound 5 s after she observed lightning. How far is she from the place where lightning occurs? (speed of sound = 330 m/s).
- Does any part of our body vibrate when we speak? Name the part.
- 13. Boojho saw a cracker burst at night at a distance from his house. He heard the sound of the cracker a little later after seeing the cracker burst. Give reason for the delay in hearing the sound.
- 14. When we hear a sound, does any part of our body vibrate? Name the part.
- 15. Name two musical instruments which produce sound by vibrating strings?