

Science

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(Chapter - 11) (Sound) (Exercises)
(Class - IX)

Question 1:

What is sound and how is it produced?

Answer 1:

Sound is a form of energy and it is produced due to vibrations of different types of object. For example: A vibrating tuning fork, a bell, wires in a sitar and a guitar etc.

Question 2:

Describe with the help of a diagram, how compressions and rarefactions are produced in air near a source of sound.

Answer 2:

If we blow a horn, speak, or produce sound by an object in air we are pushing the air molecules. These molecules, in turn, push the adjacent molecules which impart their energy to the next ones. After losing energy in the interaction, the molecule is back to its original (mean) position. This results in formation of compressions and rarefactions.



Question 3:

Why sound wave is called a longitudinal wave?

Answer 3:

A sound wave is called a longitudinal wave because it travels in the form of compressions and rarefactions in the medium, where the particles of the medium vibrate in a direction which is parallel to the direction of propagation of the sound wave.

Question 4:

Which characteristic of the sound helps you to identify your friend by his voice while sitting with others in a dark room?

Answer 4:

The timbre of sound is that characteristic which enables us to distinguish one sound from the other even when these are of the same pitch and loudness. Each person has its own timbre of sound and this characteristic helps us to identify a person from others even without looking at him (i.e., in a dark room).

Question 5:

Flash and thunder are produced simultaneously. But thunder is heard a few seconds after the flash is seen, why?

Answer 5:

The flash of light is seen earlier than the thunder of sound even though both are produced simultaneously because the speed of light (c) is greater than speed of sound (v) by 10^6 as $\frac{c}{v} = \frac{3 \times 10^8 \text{ m/s}}{340 \text{ m/s}} \approx 10^6$.

Sound A Question And Answer

Acoustical Society of America



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Ear and Voice Training by Means of Elementary Sounds of Language Norman Allison Calkins,1889 On the Basis of Music Alexander John Ellis,1877 **Report ...** Kentucky. General Assembly. Senate. Special Committee on the Penitentiary,1880 **A Handbook of Examinations in Music Containing 650 Questions** Ernest Alfred Dicks,1912

Sound Fiona Bayrock,2006 Introduces the concepts of sound waves vibration and energy and presents how humans perceive and produce different sounds Provided by publisher **The Kingfisher Encyclopedia of Questions and Answers** Brian Williams,1997 Questions and answers provide information on such topics as general science earth and space the human body and plants and animals **Music** William Smythe Babcock Mathews,1896 **Etude Music Magazine** Theodore Presser,1891 Includes music *The Lancet* ,1894 **Course of Study in Music for the Elementary School** Estell Elgar Mohr,1929 *The Etude* ,1900 A monthly journal for the musician the music student and all music lovers

The Musical Standard ,1875 *Science for the School and Family* Worthington Hooker,1884 *Yearbook for Traditional Music* ,2000 Includes record reviews **Journal of Music Therapy** ,1983 *English as She is Taught* Caroline Bigelow Le Row,1887 **All You Need to Know about Music & the Internet Revolution** Conrad Mewton,2001 Music Sales America These are exciting times for musicians record companies fans in fact for anyone with a passion for music The internet is bringing about a revolution in the way we produce distribute and listen to music and new rules new deals new players and new opportunities seem to be apperaing every day Where will it end Will record companies survive Will MP3 bring down the industry Can today s musicians use the net to go it alone and make a living How are the record deals of the future going to look How do you run your own internet record label or online radio station Is Napster here to stay Music The Internet Revolution contains all of the answers tips and know how you need to fully embrace the digital age from webcasting live concerts to reaching fans by e mail to setting up your own website Packed with advice and with a fully comprehensive appendix of important websites it is the first definitive guide to the net s extraordinary impact on the music business **The Popular Science Monthly** ,1875 **The Journal of the Acoustical Society of America** Acoustical Society of America,2001 Audio Engineering ,1948

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