



PHYSICS

BOOKS - MBD

SOUND

Example

1. Sound can travel through

A. gases only

B. solids only

C. liquid only

D. solid, liquids andd gases

Answer:



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2. Voice of which of the folowing is likely to have minimun frequency?

A. Baby girl

B. Baby boy

C. A man

D. A woman

Answer:



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3. Sound can travel through



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4. True or False

The number of oscillations per second of a vibrating object is called its time period.



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5. True or False

If the amplitude of vibration is large, sound is feeble.



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6. True or False

For human ears, the audible range is 20Hz to 20,000 Hz



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7. True or False

The lower the frequency of vibration, the higher is the pitch.



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8. True or False

Unwanted or unpleasant sound is termed as music.



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9. True or False

Noise pollution may cause partial hearing impairment.



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10. Fill in the blank

Time taken by an object to complete one oscillation is called.....



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11. Fill in the blank

Loudness is determined by theof vibration



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12. What is the unit of frequency ?



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13. Fill in the blank

Unwanted sound is called



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14. Fill in the blank

Shrillness of a sound is determined by the

of the vibration.



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15. A pendulum oscillates 40 times in 4 seconds. Find its time period and frequency.



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16. The sound from a mosquito is produced when it vibrates its wings at an average rate of

500 vibrations per second. What is the time period of the vibration?



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17. Identify the part which vibrates to produce sound in the following instruments?

Dholak

Sitar

Flute



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18. What is difference between noise and music? Can music become noise sometime?

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19. List sources of noise pollution in your surroundings.

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20. What is a noise?





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21. your parents are going to buy a house. They have been offered one on the roadside and another three lanes away from the roadside. Which house would you suggest your parents should buy? Explain your answer.



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22. Sketch larynx and explain its function in your own words.



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



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24. The unit of frequency is:

A. (A) dB

B. (B) Hz

C. (C) dB and Hz

D. (D) None of these

Answer:



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25. The intensity of disagreeable sound for human ear is:

A. 60 dB

B. 10 dB

C. 90 dB

D. 30 dB

Answer:



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26. Ultrasonic sound is:

A. Sound of frequency less than 20 Hz.

B. Sound of frequency more than 20 KHz

C. Sound of frequency 20 Hz to 20000 Hz

D. None of these

Answer:



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27. Explain in brief the dependence of speed of sound on nature of material medium and temperature.

A. 430 m/s

B. 304 m/s

C. 340 m/s

D. 3400 m/s

Answer:



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28. The intensity of disagreeable sound for human ear is:

A. 10 dB

B. 20 dB

C. 60 dB

D. 70 dB

Answer:



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29. What is sound ?



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30. How is sound produced?



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31. Can sound travel in vacuum?



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32. Does sound travel in gases?



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33. Does sound travel in liquids?



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34. Does sound travel in solids?



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35. On what factor does loudness of sound depend?



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36. If an object makes 10 oscillations in a second, then what is its frequency?



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37. Will the sound travel faster, in wood or water?



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38. Sound is produced when objects.....



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39. The number of oscillations per second is called



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40. We can respond respond to the frequency of sound more than Hertz and less than Hertz.



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41. Name the section of throat in which the human voice is produced.



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42. Name the characteristics of sound which help us to distinguish different sounds.



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43. What is the audible range of human ear?



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44. Define the term pitch.



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45. Which sound has higher frequency? Sound produced by a buzzing mosquito or sound produced by roaring lion.



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46. Write the following frequencies in their increasing order:

Voice of a child

Voice of man

Voice of a woman



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47. How does the sound produced by the vibrating object in a medium reach your ear ?



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48. What is length of vocal cords in man?



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49. Fill in the blank

Unwanted sound is called



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50. Which sound is produced by musical instruments?



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51. What is unit of loudness of sound.



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52. Name an instrument with pleasant sound.



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53. What is hearing impairment?



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54. What are causes of hearing impairment?



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55. Give an example of loud noise.



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56. Ultrasonic sound is:



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57. List sources of noise pollution in your surroundings.



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58. Which natural organism is important to reduce noise pollution?



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59. What is a noise?



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60. Define the terms time period and frequency of an oscillating body. Give their units and write the relation between them.



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61. One astronaut speaks with another astronaut on Moon. Can the other astronaut listen to the first astronaut?



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62. Sound produced by a mosquito is quite different from the roar of a lion. Explain?



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63. Cite an experiment to show that sound need a material medium for its propagation?



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64. Name the section of throat in which the human voice is produced.



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65. What are ultrasounds?



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66. What are the uses of ultrasonic sound?



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67. A boy claps his hands in front of stair-case and hears a musical sound. Explain.



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68. Will the sound travel faster, in wood or water?



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69. What is a noise?



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70. What is difference between noise and music? Can music become noise sometime?



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71. How do children with impaired hearing communicate?



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72. Identify the part which vibrates to produce sound in the following instruments?

Dholak

Sitar

Flute



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73. Describe an activity to show that sound is a mechanical wave and need a material medium for its propagation.



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74. What is a noise?



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75. What is music ? Name the various types of vibrating objects used in different kinds of musical instruments.



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