PHYSICS

BOOKS - MBD -HARYANA BOARD

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. Which of the following voices is likely to have minimum frequency?

A. Baby girl

B. Baby boy

C. A man

D. A woman

Answer:

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3. Sound cannot travel in _____

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4. In the statement, tick 'T' against those which are true, and 'F' against those which are false.

The number of oscillations per second of a vibrating object is called its time period. (T/F)

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5. In the statement, tick 'T' against those which are true, and 'F' against those which are false.

If the amplitude of vibration is large, sound is feeble. (T/F)

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6. In the statement, tick 'T' against those which are true, and 'F' against those which are false. For human ears, the audible range is 20 Hz to 20,000 Hz. (T/F)

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7. Answer true or false

The lower, the frequency of vibrations, the higher the pitch.

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8. In the statement, tick 'T' against those which are true, and 'F' against those which are false. (T/F)Unwanted or unpleasant sound is termed as music. (T/F)

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9. In the statement, tick 'T' against those which are true, and 'F' against those which are false.

Noise pollution may cause partial hearing impairment. (T/F)

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10. Fill in the blanks with suitable word

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

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11. Fill in the blanks with suitable word

Loudness is determined by the _____ of vibration.

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12. Fill in the blanks with suitable word

The unit of frequency is _____

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13. Fill in the blanks with suitable word

Unwanted sound is called _____

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14. Fill in the blanks with suitable word

Shrillness of a sound is determined by the_____ of vibration.

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

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?

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

Dholak

Sitar

Flute.

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

19. List sources of noise pollution in your surroundings.

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20. Explain in what way noise pollution is harmful to humans.

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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. Lightning and thunder take place in the sky at the same time and at the same distance from us. Lightning is seen earlier and thunder is heard latter. Can you explain why?

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24. The unit of frequency is

    A. dB

    B. Hz

C. dB and Hz

D. None of these

Answer:

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. What is the ultrasonic sound?

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. Speed of sound at $20° C$ is approximately:

A. 430 m/s

B. 304 m/s

C. 340 m/s

D. 3400 m/s

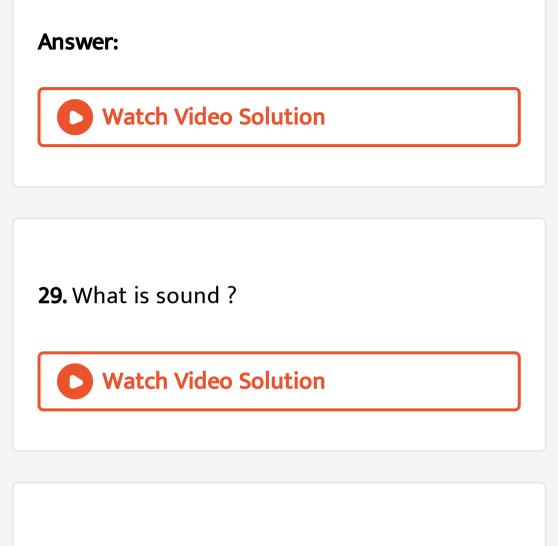**Answer:**

28. The intensirty of sound at ordinary inhale is:
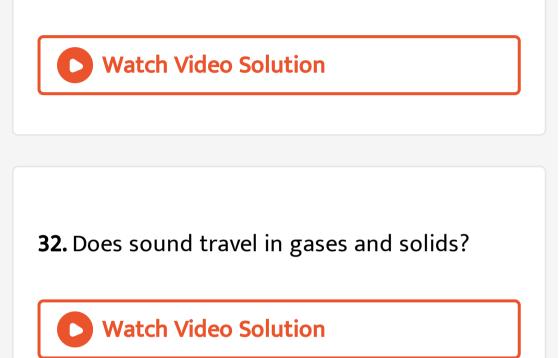
    A. 10 dB

    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? How does its pitch gets affected by the size of object?

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31. How fast can sound travel in vacuum? Why?

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32. Does sound travel in gases and solids?

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33. Does sound travel in liquids?

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34. Does sound travel in solids? Compare its speed in solids with that in gases.

35. The loudness of sound depends on :

36. If an object makes 100 oscillations in a second, then what is its frequency?

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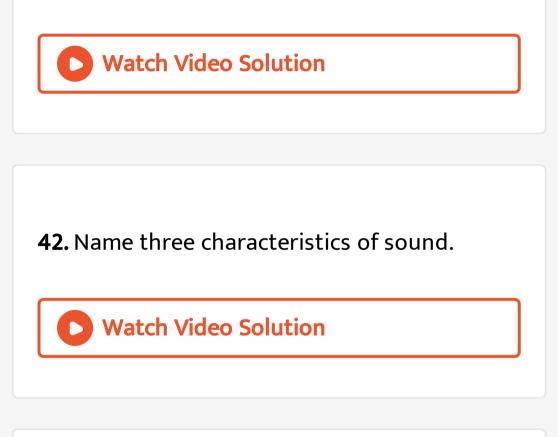
37. Will the sound travel faster, in wood or water?

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

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39. The number of oscillations per second is called ....

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

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

42. Name three characteristics of sound.

43. What is the audible range of the average human ear ?

44. Define the term pitch.

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

46. Write the following frequencies in their increasing order:

Voice of a child
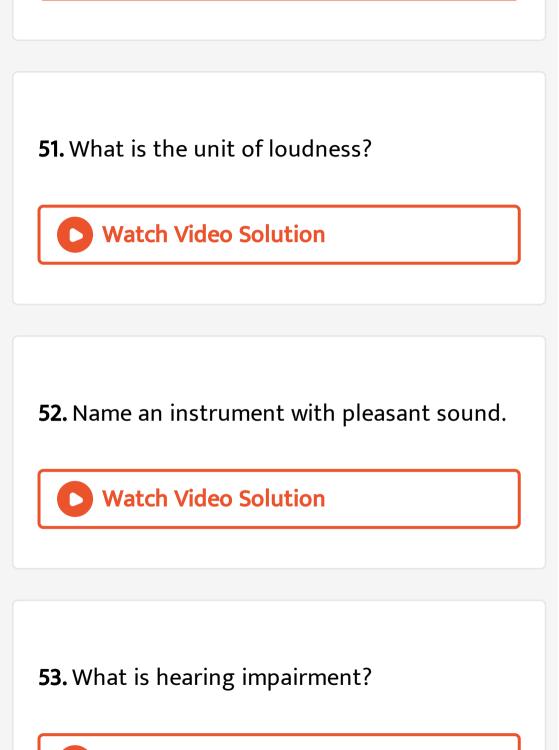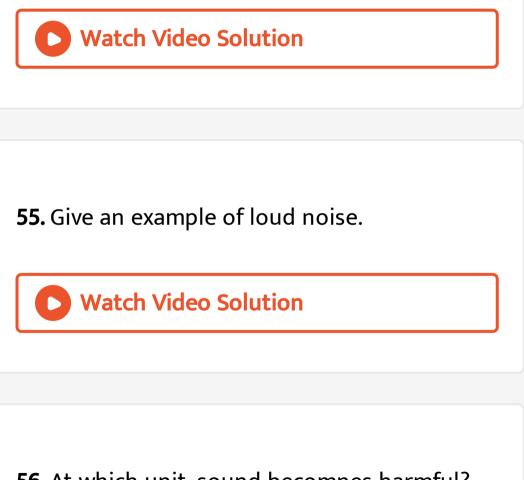
Voice of man

Voice of a woman

47. How do we hear sound?

48. What is length of vocal cords in man?

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49. Which term is used to refer to unpleasant

sounds ?

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50. How sound is produced in Musical

Instruments?

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51. What is the unit of loudness?

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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.

 ▶ **Watch Video Solution**

56. At which unit, sound becomnes harmful?

 ▶ **Watch Video Solution**
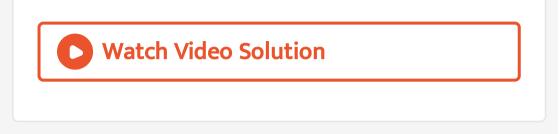
57. Which of these sources would cause the most noise pollution ?

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

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59. What is noise pollution ?

> ▶ **Watch Video Solution**

60. Define the term time period, frequency and amplitude.

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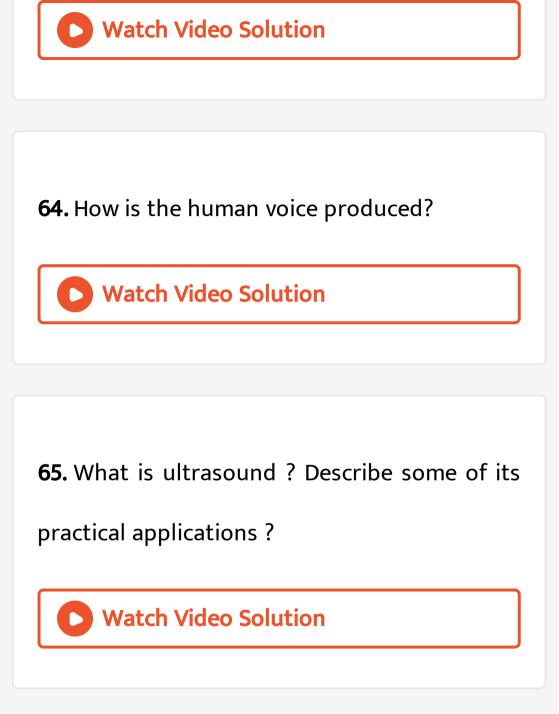**61.** One astronut speaks with another astronaut on Moon. Can the other astronaut

listen to the first astronaut?

62. The voice of a lion is different from that of a mosquito because

63. Explain with simple experiment to show that sound propagates through solid substance.

64. How is the human voice produced?

65. What is ultrasound ? Describe some of its practical applications ?

66. state any three uses of ultrasonic sound.

67. A boy claps his hands in front of stair-case

and hears a musical sound. Explain.

68. What is noise ? What is its unit?

69. What is the difference between noise and music? Can music become noise sometimes?

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70. A child with hearing impairment

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71. Indentify the part which vibrates to produce sound in the following instruments?

Sr. No.	Musical Instrument	Sound producing part
1.	Flute	
2.	Dholak	

72. Give an activity to show that sopund needs medium to be heard.

73. What is noise pollution? What are its causes and its effects?

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

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