



PHYSICS

BOOKS - PSEB

SOUND

Exercise

1. Choose the correct answer .

Sound can travel through

A. gases only

B. solids only

C. liquids only

D. solids, liquids and gases.

Answer:



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2. Voice of which of the following is likely to have minimum frequency ?

A. Baby girl.

B. Baby boy.

C. A man.

D. A woman

Answer:



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3. In the following statements ,tick 'T' against those which are true and 'F' against those

which are false. Sound cannot travel in vacuum. (T/F)



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4. In the following statements, 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 following statements ,tick 'T' against those which are true and 'F' against those which are false. If the amplitude of viberation is large ,sound is feeble. (T/F)



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



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7. In the following statements ,tick 'T' against those which are true and 'F' against those which are false. The lower the frequency of viberation ,the higher is the pitch.. (T/F)



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8. In the following statements ,tick 'T' against those which are true and 'F' against those

which are false. Unwanted or unpleasant sound is termed as music.. (T/F)



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9. In the following statements ,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 words. Time taken by an object to complete one oscillation is called..... .



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11. Fill in the blanks with suitable words. Loudness is determined by the of vibration .



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12. Fill in the blanks with suitable words. The unit of frequency is



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13. Fill in the blanks with suitable words. Unwanted sound is called



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14. Fill in the blanks with suitable words.
Shrillness of 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.



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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



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

Sitar



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

Flute



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



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21. List sources of noise pollution in your surroundings.



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22. Explain in what way noise pollution is harmful to human.



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23. 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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24. Sketch larynx and explain its function in your own words.



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



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