

## CLASS IX SAMPLE PAPER SCIENCE

## Vandana Tutorial

## Sound

- 1. what is persistence of hearing? (1)
- 2. what does the slope of speed-time graph indicate? (2)
- name the characteristics of sound which depends on:
   (i) Amplitude
   (ii) waveform
- 4. give one use of ultrasound in industry and one in hospitals? (1)
- 5. A sonar station picks up a return signal after 3seconds. How far away is object? (speed of sound in water=1440m/s) (1)
- 6. Name that part of ear which vibrates when outside sound fall on it? (1)
- 7. What type of waves are sound waves in air.
- 8. State the general name of the waves in which the particles of the medium vibrate:
  - i. Compression and rarefaction
  - ii. Crest and troughs.
- 9. name the type of waves when a tuning fork is struck in air.
- 10. Are the sound waves longitudinal or transverse?
- 11. Which type of waves is represented by
  - i. By density distance graph
  - ii. By displacement distance graph
- 12. If there are 60 sound waves are produced by a source in 4 second. Calculate the frequency of the source.
- 13. The wave length of sound emitted by a source is  $1.7 \times 10^{-2}$  m. Calculate the frequency of the sound, if the velocity of the sound in air is 345 m/s.
- 14. A source is producing 4500 sound waves in 3 seconds. If the distance covered by a compression and an adjacent rarefaction be 98 cm, find (i) Frequency (ii) wavelength (iii) velocity of the sound wave.
- 15. Explain the term 'amplitude'.
- 16. What is the s.i. unit of frequency?
- 17. A sound signal of 128 vibrations peer second having wavelength 2.7 m. Calculate the speed of with which the wave travels.
- 18. Calculate the speed of the sound wave whose frequency is 2 kHz and wavelength is 65 cm.
- 19. Name the device which is used to produce sound in laboratory.

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- 20. How does sound from a sound producing body travel through air to reach our ear.
- 21. How is sound produced?
- 22. Why sound can not travel in vacuum.
- 23. Name the type of the waves which are used by astronauts to communicate with one another on moon?
- 24. Is the speed of the sound more in water or steel?
- 25. The flash of a gun is seen by a man 3 seconds before the sound is heard. Calculate the distance of the gun from the man if the speed of the sound in air 332 m/s.
- 26. Give the law of reflection of sound.
- 27. Give some applications reflections of sound.
- 28. What is sound board.
- 29. Calculate the minimum distance for echo.
- 30. What do you mean by ultra sound.
- 31. Give some applications of ultrasound.
- 32. Give the full form of sonar and explain its use.
- 33. A sonar station picks up a return signal after 3 second. How far away is the object? Speed of sound in water 1440 m/s.
- 34. Name an animal which navigates and find food by echolocation.
- 35. Give the working and construction of human ear.

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