

Q. The wavelength of waves produced on the surface of water is 20 cm. If the wave velocity is 24 ms^{-1} , calculate (a) the number of waves produced in one second (b) the time required to produce one wave.

Ans. Given wavelength, $\lambda = 20 \text{ cm} = 0.20 \text{ m}$, wave velocity, $v = 24 \text{ ms}^{-1}$

(a) From relation, $v = v\lambda$,

$$\text{Frequency, } v = \frac{v}{\lambda}$$

Number of waves produced in one second is simply the frequency *i.e.*

$$v = \frac{v}{\lambda} = \frac{24}{0.20} = 120 \text{ waves per second}$$

(b) Time period, $T = \frac{1}{v} = \frac{1}{120} \text{ second} = 8.33 \times 10^{-3} \text{ seconds}$

Q. A longitudinal wave of wavelength 1 cm travels in air with a speed of 330 m/s. Calculate the frequency of the wave. Can this wave be heard by a normal human body?

Ans. The relation between wave velocity (v), frequency (ν) and wavelength (λ) is

$$v = v\lambda \Rightarrow v = \frac{v}{\lambda}$$

Given, $\lambda = 1 \text{ cm} = 1 \times 10^{-2} \text{ m}$, $v = 330 \text{ m/s}$

$$\text{Frequency, } v = \frac{v}{\lambda} = \frac{330}{1 \times 10^{-2}} = 33,000 \text{ Hz}$$

This frequency is more than 20,000 Hz (maximum frequency audible to man); hence, it cannot be heard by a normal human being.

Q. A sound wave of wavelength 0.332 m has a time period of 10^{-3} s . If the time period is decreased to 10^{-4} s , calculate the wavelength and frequency of new wave.

Ans. Given wavelength, $\lambda = 0.332 \text{ m}$

Time period of wave, $T = 10^{-3} \text{ s}$

$$\therefore \text{Frequency of wave, } v = \frac{1}{T} = \frac{1}{10^{-3}} = 1000 \text{ Hz}$$

$$\therefore \text{Velocity of wave, } v = v\lambda = 1000 \times 0.332 = 332 \text{ m/s}$$

In a given medium, the velocity of sound waves remains same.

New time period of new wave, $T' = 10^{-4} \text{ s}$

$$\text{Frequency of new wave } v' = \frac{1}{T'} = \frac{1}{10^{-4}} = 10,000 \text{ Hz}$$

$$\therefore \text{Wavelength of new wave, } \lambda' = \frac{v}{v'} = \frac{332}{10,000} = 0.0332 \text{ m}$$

Q. A boy hears the echo of his own voice from a distant hill after 0.8 second. If the speed of sound in air is 340 m/s, calculate the distance of hill from the boy.

Ans. Let s be the distance of the hill from the boy and t the time of to and fro journey of sound waves, then from relation

$$\text{distance} = \text{velocity} \times \text{time,}$$

$$\text{We have } 2s = vt$$

$$\Rightarrow s = \frac{vt}{2}$$

Here, $v = 340 \text{ m/s}$, $t = 0.8 \text{ s}$

$$\therefore s = \frac{340 \times 0.8}{2} = 340 \times 0.4 \text{ m} = 136 \text{ m}$$

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