

Sr. inter physics important problems

1. A closed organ pipe 70cm long is sounded. If the velocity of sound is 331m/s, what is the fundamental frequency of vibration of the air column?

Sol: Closed pipe length $l = 70\text{cm}$
 Velocity of sound $v = 331\text{m/s}$

$$n = \frac{v}{4l} = \frac{331}{4 \times 70 \times 10^{-2}} = 118.2 \text{ Hz}$$

2. A steel wire 0.72m long has a mass of $5.0 \times 10^{-3} \text{ kg}$. If the wire is under a tension of 60N, what is the speed of transverse waves on the wire?

Sol: mass per unit length of the wire, $\mu = \frac{\text{mass}}{\text{length}} = \frac{5.0 \times 10^{-3} \text{ kg}}{0.72 \text{ m}} = 6.9 \times 10^{-3} \text{ kg m}^{-1}$
 Tension $T = 60\text{N}$
 The speed of wave on the wire is given by $V = \sqrt{\frac{T}{\mu}} = \sqrt{\frac{60}{6.9 \times 10^{-3}}} = 93\text{ms}^{-1}$

3. Two organ pipes of lengths 65cm and 70cm respectively, are sounded simultaneously. How many beats per second will be produced between the fundamental frequencies of the two pipes?
 (velocity of sound = 330m/s)

Sol: Length of the first organ pipe $L_1 = 65\text{cm} = 65 \times 10^{-2}\text{m}$
 Length of the second organ pipe $L_2 = 70\text{cm} = 70 \times 10^{-2}\text{m}$
 Velocity of sound $V = 330 \text{ m/s}$
 If the organ pipes are considered as open pipe then, the fundamental frequency of first organ pipe $n_1 = \frac{v}{2l}$

$$n_1 = \frac{330}{2 \times 65 \times 10^{-2}} = 253.84 \text{ Hz}$$

 the fundamental frequency of second organ pipe $n_2 = \frac{v}{2l}$

$$n_2 = \frac{330}{2 \times 70 \times 10^{-2}} = 235.71 \text{ Hz}$$

 Number of beats per second (or) beat frequency $\Delta n = n_1 - n_2$
 $\Delta n = 253.84 - 235.71 = 18.12 \text{ Hz/s}$

4. An open pipe of 85cm long is sounded. If the velocity of sound is 340m/s, what is the fundamental frequency of the air column?

Sol: Length of open pipe $l = 85\text{cm} = 85 \times 10^{-2}\text{m}$ velocity $v = 340\text{m/s}$
 Fundamental frequency $n = \frac{v}{2l} = \frac{340}{2 \times 85 \times 10^{-2}} = 200\text{Hz}$.

5. Stretched wire of length 0.6m observed to vibrate with a frequency of 30Hz in the fundamental mode. If the string has a linear mass of 0.05kg/m, find (a) velocity of propagation of transverse wave in the string (b) the tension in the string ?

Sol: Given $l = 0.6\text{m}$, $n = 30\text{Hz}$, $\mu = 0.05\text{kg/m}$ $V = ?$
 (a) Formula: $V = n\lambda$
 For fundamental mode $\lambda = 2l$.
 $\therefore V = n(2l) = 30 \times 2 \times 0.6 = 36\text{m/s}$
 (b) Tension $T = ?$
 by $V = \sqrt{\frac{T}{\mu}}$ so $T = V^2\mu = 36 \times 36 \times 0.05 = 64.8\text{N}$

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