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 $l = 70cm$

Velocity of sound $v = 331m/s$

$n = \frac{v}{4l} = \frac{331}{4\times70\times10^{-2}} = \mathbf{118.2\ Hz}$

2. **A steel wire 0.72m long has a mass of 5.0×10^{-3} 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, $\mu = \frac{mass}{length} = \frac{5.0\times10^{-3}\ kg}{0.72\ m}$

$= \mathbf{6.9 \times 10^{-3}\ kg\ m^{-1}}$

Tension T = 60N

The speed of wave on the wire is given by $V = \sqrt{\frac{T}{\mu}} = \sqrt{\frac{60}{6.9\times10^{-3}}} = \mathbf{93 ms^{-1}}$

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** = 65cm = 65×10^{-2}m

Length of the second organ pipe L_2= 70cm =70×10^{-2}m

Velocity of sound V=330 m/s

If the organ pipes are considered as open pipe then, the fundamental frequency of first organ pipe $n_1 = \frac{v}{2l}$

$n_1 = \frac{330}{2\times65\times10^{-2}} = \mathbf{253.84\ Hz}$

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

$n_2 = \frac{330}{2\times70\times10^{-2}} = \mathbf{235.71\ Hz}$

Number of beats per second (or) beat frequency $\Delta n = n_1 \sim n_2$

$\Delta n = 253.84 - 235.71 = \mathbf{18.12\ Hz/s}$

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 $l = 85cm = 85\times10^{-2}$m velocity V= 340m/s

Fundamental frequency $n = \frac{v}{2l} = \frac{340}{2\times85\times10^{-2}} = \mathbf{200Hz.}$

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, fined (a) velocity of propagation of transverse wire in the string (b) the tension in the string ?**

Sol : Given $l = 0.6m$, $n = 30Hz$, $\mu = 0.05kg/m$ $V = ?$

(a) Formula : $V = n\lambda$

For fundamental mode $\lambda = 2l$.

$\therefore V = n(2l) = 30 \times 2 \times 0.6 = \mathbf{36m/s}$

(b) Tension $T = ?$

by $V = \sqrt{\frac{T}{\mu}}$ so $T = V^2\mu = 36 \times 36 \times 0.05 = \mathbf{64.8N}$

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