

FIITJEE
ALL INDIA TEST SERIES
JEE (Advanced)-2023
OPEN TEST – II
PAPER – 2
TEST DATE: 16-04-2023

ANSWERS, HINTS & SOLUTIONS

Physics

PART – I

Section – A

1.
Sol.

C

$$kx_0 = \mu_b mg$$

$$\text{Now, } \frac{1}{2} kx_0^2 - \frac{1}{2} k(x_0 - S)^2 = \mu_b mgS$$

$$\frac{1}{2} k(2x_0 - S)S = \mu_b mgS$$

$$kx_0 - \frac{kS}{2} = \mu_b mg$$

$$\mu_b mg - \frac{kS}{2} = \mu_b mg$$

$$\mu_b = \mu_b + \frac{kS}{2mg}$$

$$\mu_b = 0.50 + \frac{100 \times 6 \times 10^{-2}}{2 \times 10}$$

$$\mu_b = 0.50 + 0.30 = 0.80$$

2.

A

Sol.

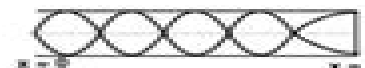
$$f = \frac{9v}{4l} \Rightarrow l = \frac{9v}{4f} = \frac{9 \times 330}{4 \times 660} = \frac{9}{8} \text{ m} = 112.50 \text{ cm}$$

The amplitude of pressure variation in the pipe is

$$a = |\Delta P_0 \sin kx|$$

$$a = \left| \Delta P_0 \sin \left(\frac{2\pi x}{\lambda} \right) \right|$$

$$a = \left| \Delta P_0 \sin \left(\frac{2\pi \times 9x}{4l} \right) \right|$$



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