



PHYSICS

BOOKS - D MUKHERJEE PHYSICS (HINGLISH)

EXPERIMENTAL PHYSICS

Chose The Correct

1. A small , hollow metal cylinder is closed at one end . Its mass is known . Which of the

following instruments are required to find the density of the metal ?

- A. Slide callipers only
- B. Slide callipers and screw gauge
- C. Screw gauge and spherometer
- D. Slide callipers and spherometer

Answer:



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2. In an experiment to measure the focal length of a convex lens, the data for image distances (v) for different object distances (u) are plotted to obtain the three graphs of (1) v against u , (2) $\frac{1}{v}$ against $\frac{1}{u}$ and (3) $u + v$ against u . It is possible to find the focal length directly, without any further calculations, from which of these graphs?

A. All

B. 1 and 2

C. 2 and 3

D. 1 and 3

Answer:



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3. In a resonance - column experiment to measure the velocity of sound , the first resonance is obtained at a length l_1 and the second resonance at a length l_2 . Then ,

A. $l_2 > 3l_1$

B. $l_2 = 3l_1$

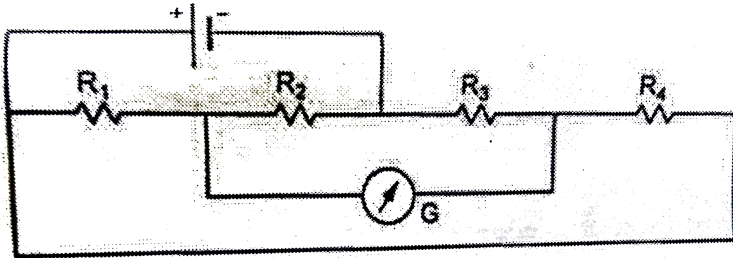
C. $l_2 < 3l_1$

D. may be any of the above , depending on
the frequency of the tuning fork used

Answer:



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4.

In the given circuit , the galvanometer G will show zero deflection if

A. $R_1 R_2 = R_3 R_4$

B. $R_1 R_3 = R_2 R_4$

C. $R_1 R_4 = R_2 R_3$

D. none of the above

Answer:



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