

PART I : PHYSICS

SECTION – 1 (One or More Than One Options Correct Type)

This section contains 10 multiple choice type questions. Each question has four choices (A), (B), (C) and (D) out of which ONE or MORE THAN ONE are correct.

- *1. A student is performing an experiment using a resonance column and a tuning fork of frequency 344 s^{-1} . He is told that the air in the tube has been replaced by another gas (assume that the column remains filled with the gas). If the minimum height at which resonance occurs is $(0.350 \pm 0.005)\text{m}$, the gas in the tube is (Useful information: $\sqrt{15.7RT} = 640 \text{ J}^{1/2}\text{mole}^{-1/2}$, $\sqrt{140RT} = 590 \text{ J}^{1/2}\text{mole}^{-1/2}$. The molar masses M in grams are given in the options. Take the values of $\sqrt{\frac{10}{M}}$ for each gas as given there.)

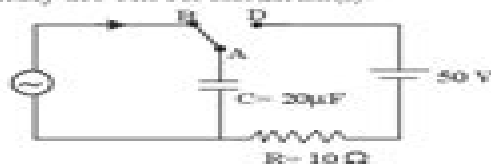
(A) Neon $\left[M = 20, \sqrt{\frac{10}{20}} = \frac{7}{10} \right]$

(B) Nitrogen $\left[M = 28, \sqrt{\frac{10}{28}} = \frac{3}{5} \right]$

(C) Oxygen $\left[M = 32, \sqrt{\frac{10}{32}} = \frac{9}{16} \right]$

(D) Argon $\left[M = 36, \sqrt{\frac{10}{36}} = \frac{17}{32} \right]$

2. At time $t = 0$, terminal A in the circuit shown in the figure is connected to B by a key and an alternating current $I(t) = I_0 \cos(\omega t)$, with $I_0 = 1 \text{ A}$ and $\omega = 500 \text{ rad/s}$ starts flowing in it with the initial direction shown in the figure. At $t = \frac{7\pi}{6\omega}$, the key is switched from B to D. Now onwards only A and D are connected. A total charge Q flows from the battery to charge the capacitor fully. If $C = 20 \mu\text{F}$, $R = 10 \Omega$ and the battery is ideal with emf of 50 V , identify the correct statement(s).



- (A) Magnitude of the maximum charge on the capacitor before $t = \frac{7\pi}{6\omega}$ is $1 \times 10^{-3} \text{ C}$.
- (B) The current in the left part of the circuit just before $t = \frac{7\pi}{6\omega}$ is clockwise.
- (C) Immediately after A is connected to D, the current in R is 10 A .
- (D) $Q = 2 \times 10^{-3} \text{ C}$.
3. A parallel plate capacitor has a dielectric slab of dielectric constant K between its plates that covers $1/3$ of the area of its plates, as shown in the figure. The total capacitance of the capacitor is C while that of the portion with dielectric is C_1 . When the capacitor is charged, the plate area covered by the dielectric gets charge Q_1 and the rest of the area gets charge Q_2 . The electric field in the dielectric is E_1 and that in the other portion is E_2 . Choose the correct option/options, ignoring edge effects.

$Q_1 = \frac{K E_1}{K_2}$
 $Q_2 = \frac{E_2}{K_2}$

(A) $\frac{E_1}{E_2} = 1$

(B) $\frac{E_1}{E_2} = \frac{1}{K}$

(C) $\frac{Q_1}{Q_2} = \frac{3}{K}$

(D) $\frac{C}{C_1} = \frac{2+K}{K}$

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