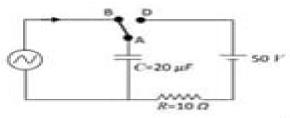
Questions with Answers

PART - 1 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. At time t=0, terminal A in the circuit shown in the figure is connected to B by a keyand an alternating current $I(t)=I_0\cos(t\omega t)$, with $I_0=1$ and $\omega=500$ rad s^{-1} 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 $C=20\mu F$, R=10 Ω and the battery is ideal with emf of 50 F, identify the correct statement (s).



- (A) Magnitude of the maximum charge on the capacitor before $t = \frac{7\pi}{6m}$ is 1×10^{-3} C.
- (B) The current in the left part of the circuit just before $t = \frac{7\pi}{6\pi r}$ is clockwise.
- (C) Immediately after A is connected to D, the current in R is 10.4.
- (D) $Q = 2 \times 10^{-3} C$.

Answer (C) and (D)

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