

(d) : $\phi_{\text{Cs}} = 1.9 \text{ eV}$, $\phi_{\text{Li}} = 2.5 \text{ eV}$; $\lambda = 550 \text{ nm}$

$$E = \frac{hc}{\lambda} = \frac{6.6 \times 10^{-34} \times 3 \times 10^8}{550 \times 10^{-9} \times 1.6 \times 10^{-19}} \text{ eV} = 2.25 \text{ eV}$$

$E > \phi_{\text{Cs}}$ and $E > \phi_{\text{Li}}$

So, photo-electric effect is possible only for Cs.