

- 30** A particle has a charge of $4.8 \times 10^{-19} \text{ C}$. The particle remains at rest between a pair of horizontal, parallel plates having a separation of 15 mm. The potential difference between the plates is 660 V.

What is the weight of the particle?

- A** $2.1 \times 10^{-14} \text{ N}$
- B** $2.1 \times 10^{-15} \text{ N}$
- C** $2.1 \times 10^{-17} \text{ N}$
- D** $1.1 \times 10^{-23} \text{ N}$

- 31** Two wires P and Q made of the same material and of the same length are connected in parallel