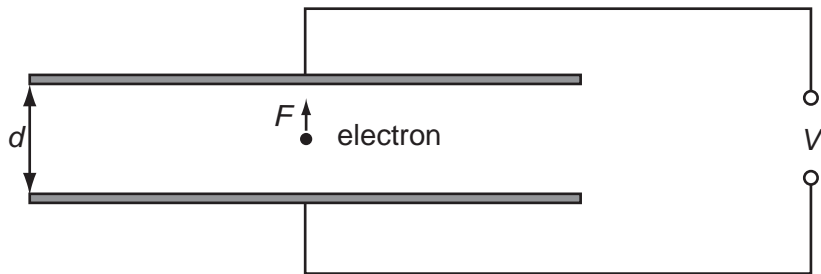**30** An electron of charge e is introduced between two metal plates a distance d apart.

A potential difference V is applied to the plates as shown in the diagram.

Which expression gives the electric force F on the electron?

A $\dfrac{eV}{d}$ **B** eVd **C** $\dfrac{V}{ed}$ **D** $\dfrac{dV}{e}$