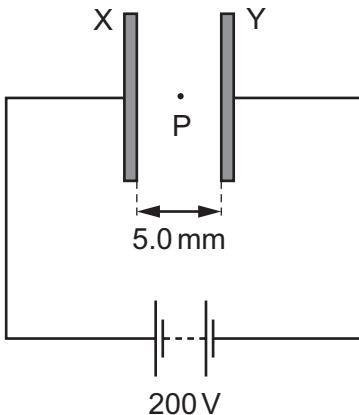


- 29 Two large parallel plates X and Y are placed a distance of 5.0 mm apart and connected to the terminals of a 200 V d.c. supply, as shown.



A small oil drop at P carries one excess electron.

What is the magnitude of the electrostatic force acting on the oil drop due to the electric field between the plates?

- A 6.4×10^{-15} N
- B 6.4×10^{-18} N
- C 1.6×10^{-19} N
- D 4.0×10^{-24} N