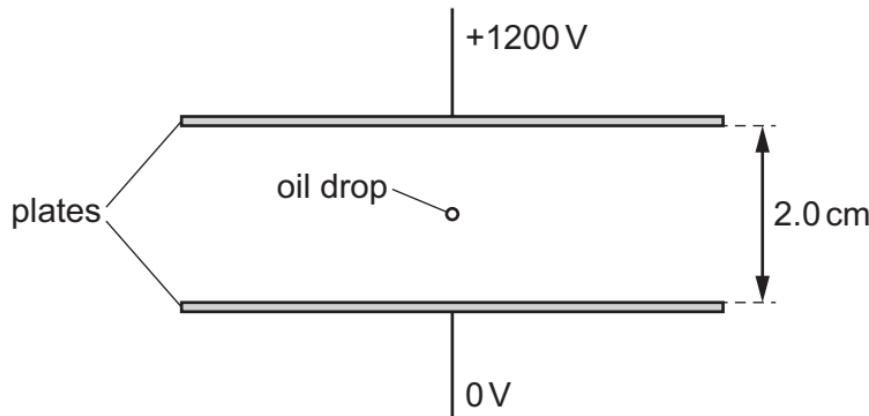


- 31 An oil drop of mass 2.6×10^{-15} kg and with a charge of -4.8×10^{-19} C is in a vacuum between two horizontal plates. The plates have a separation of 2.0 cm and a potential difference (p.d.) between them of 1200 V, as shown.



Which statement describes the motion of the oil drop?

- A It is stationary.
- B It has a downward acceleration of 9.7 ms^{-2} .
- C It has an upward acceleration of 1.3 ms^{-2} .
- D It has an upward acceleration of 11 ms^{-2} .