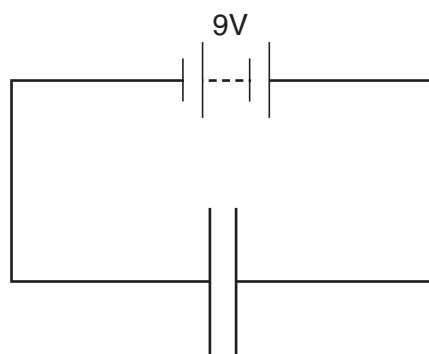


- 37** In the circuit below, the distance between the two parallel plates is $2.0 \times 10^{-3}\text{m}$. An electron is situated between the plates.



What is the force on the electron?

- A** $3.2 \times 10^{-22}\text{ N}$
B $2.9 \times 10^{-21}\text{ N}$
C $8.9 \times 10^{-18}\text{ N}$
D $7.2 \times 10^{-16}\text{ N}$
- 38** Which are the correct descriptions of a γ -ray and a β -particle?

	γ -ray	β -particle
A	high-speed electron	electromagnetic radiation
B	electromagnetic radiation	Helium-4 nucleus
C	electromagnetic radiation	high-speed electron
D	high-speed electron	Helium-4 nucleus

- 39** A certain nuclide, Uranium-235, has nucleon number 235, proton number 92 and neutron number 143. Data on four other nuclides are given below.

Which is an isotope of Uranium-235?

	nucleon number	proton number	neutron number
A	235	91	144
B	236	92	144
C	237	94	143
D	238	95	143