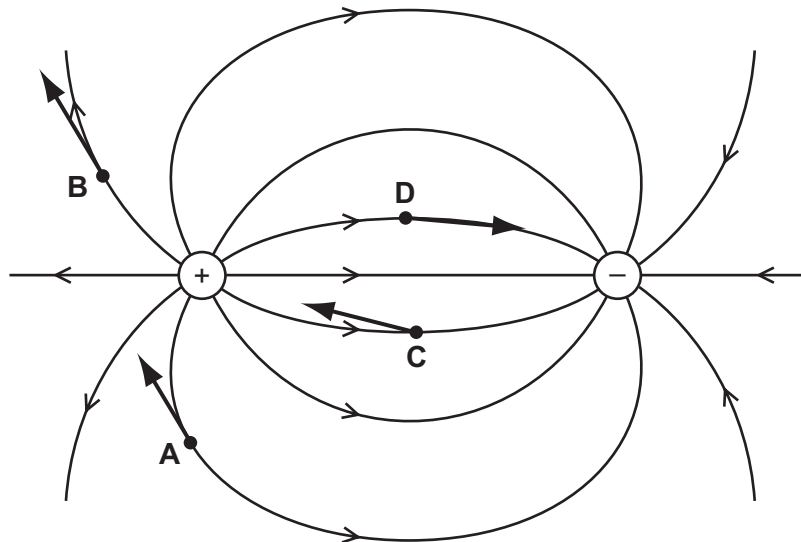


- 31** The diagram shows a non-uniform electric field near a positively charged and a negatively charged sphere.

Four electrons, **A**, **B**, **C** and **D**, are shown at different positions in the field.

On which electron is the direction of the force on the electron shown correctly?



- 32** A charge of 8.0 C passes through a resistor of resistance $20\ \Omega$ at a constant rate in a time of 20 s .