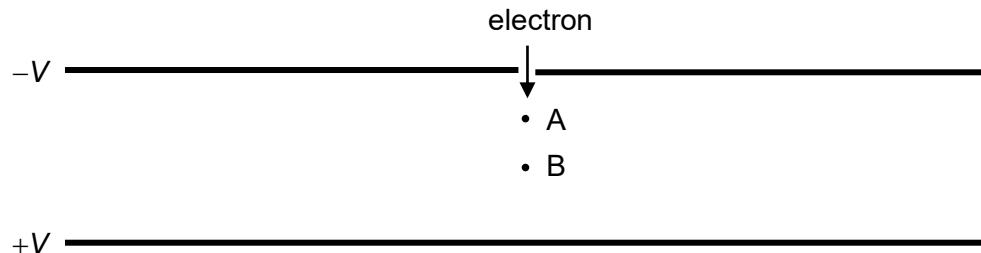


- 20** An electron enters the region between two charged parallel plates through a small opening, in the direction as shown in the diagram below. A and B are two points on the path of the electron.



The two plates are at electric potentials  $-V$  and  $+V$ .

Which row correctly describes the relations between the electric forces  $F$ , potentials  $V$  and potential energies  $U$  at A and B?

- A**  $F_A > F_B$ ,  $V_A > V_B$ ,  $U_A < U_B$
- B**  $F_A > F_B$ ,  $V_A < V_B$ ,  $U_A > U_B$
- C**  $F_A = F_B$ ,  $V_A > V_B$ ,  $U_A < U_B$
- D**  $F_A = F_B$ ,  $V_A < V_B$ ,  $U_A > U_B$