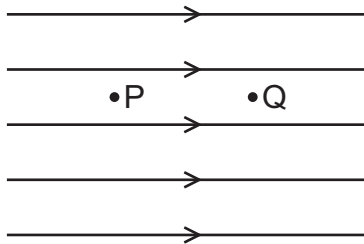


32 A uniform electric field is represented by five horizontal field lines.



P and Q are two points in the field. The field causes a positively charged particle in a vacuum to move from P to Q.

Which statement must be correct?

- A** The acceleration of the particle between P and Q is increasing.
- B** The kinetic energy of the particle at P is the same as the kinetic energy of the particle at Q.
- C** The force on the particle at Q is greater than the force on the particle at P.
- D** Work is done on the particle as it moves from P to Q.

33 A point charge of $+5.0 \mu\text{C}$ is placed at a distance of 0.20 m from a point charge of $+2.0 \mu\text{C}$.