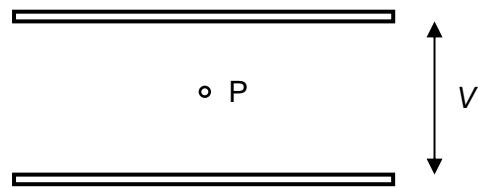


- 19** A small positively-charged particle P is balanced halfway between two horizontal plates when a potential difference  $V$  is applied between the plates.



When  $V$  is increased, P rises towards the upper plate.

When  $V$  is decreased, P falls towards the lower plate.

Which statement is correct?

- A** Decreasing  $V$  decreases both the electric and the gravitational potential energy of the particle.
- B** Decreasing  $V$  increases the electric potential energy and decreases the gravitational potential energy of the particle.
- C** Increasing  $V$  increases both the electric and the gravitational potential energy of the particle.
- D** The change of electric potential energy of the particle must equal the change of gravitational potential energy of the particle.