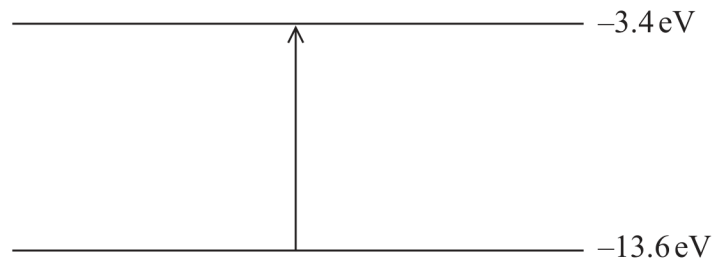


- 7 The diagram shows an electron transition between two energy levels in a hydrogen atom.



Which of the following could **not** have caused this transition?

- ☒ A The atom absorbing a photon with an energy of 13.6 eV .
- ☒ B The atom absorbing a photon with an energy of 10.2 eV .
- ☒ C An electron with a kinetic energy of 13.6 eV colliding with the atom.
- ☒ D An electron with a kinetic energy of 10.2 eV colliding with the atom.

(Total for Question 7 = 1 mark)