

28 Some electron energy levels for a mixture of gas are shown in the diagram.

E_3 ————— 20.6 eV

E_2 ————— 18.7 eV

E_1 ————— 16.0 eV

E_0 ————— 0 eV (ground state)

Which transition will result in the emission of light of wavelength 650 nm?

- A** $E_2 \rightarrow E_1$
- B** $E_3 \rightarrow E_0$
- C** $E_3 \rightarrow E_1$
- D** $E_3 \rightarrow E_2$

[Turn over]