

**37** Some of the electron energy levels for neon in a helium-neon laser are shown in the diagram.

W ————— 20.66 eV

X ————— 18.70 eV

Y ————— 16.70 eV

Z ————— 0 (ground state)

Which energy change for electrons results in laser light of wavelength 633 nm?

**A**  $W \rightarrow X$

**B**  $X \rightarrow Y$

**C**  $W \rightarrow Y$

**D**  $W \rightarrow Z$