30 Light of wavelength 450 nm is incident on a metal surface. The most energetic electrons ejected from the metal surface are undeflected as they pass through a region of mutually perpendicular magnetic and electric fields of strength 2.0×10^{-3} T and 1400 V m^{-1}, respectively.

What is the work function energy of the metal?

A 2.2×10^{-19} J   **B** 4.4×10^{-19} J   **C** 6.6×10^{-19} J   **D** 8.8×10^{-19} J

BLANK PAGE