

- 29** The accelerating potential difference in an X-ray tube is 20 kV.

What is the shortest wavelength of the X-ray photon emitted from the X-ray tube?

**A**  $1.6 \times 10^{-11}$  m

**B**  $6.2 \times 10^{-11}$  m

**C**  $1.6 \times 10^{-10}$  m

**D**  $6.2 \times 10^{-10}$  m