

- 30 Electrons are only just emitted from a metal surface when illuminated with light of frequency  $4.0 \times 10^{14} \text{ Hz}$ .

When illuminated with light of frequency  $f$ , the stopping potential is found to be 1.5 V.

What is the value of the frequency  $f$ ?

- A  $3.8 \times 10^{13} \text{ Hz}$     B  $3.6 \times 10^{14} \text{ Hz}$     C  $4.2 \times 10^{14} \text{ Hz}$     D  $7.6 \times 10^{14} \text{ Hz}$