

Electrons are only just emitted from a metal surface when illuminated with light of frequency 4.0×10^{14} 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

$$7.6 \times 10^{14} \text{ Hz}$$