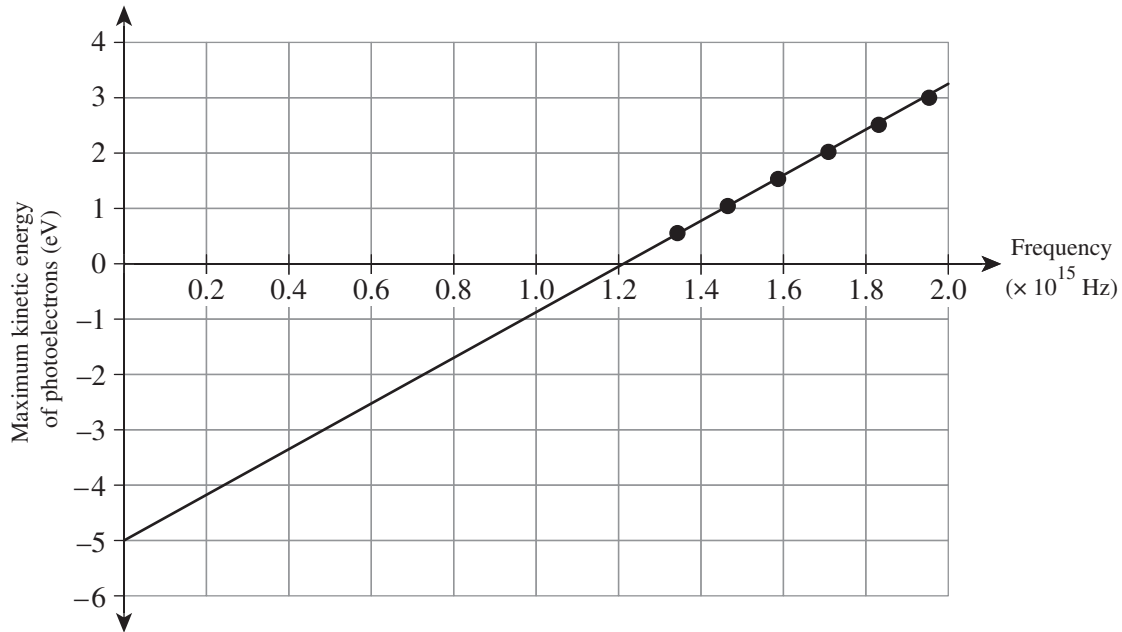


**Question 35** (7 marks)

Ultraviolet light with a wavelength of 180 nm is shone on a polished nickel plate. The work function for the nickel plate is shown in the graph.



- (a) What is the work function for the nickel plate? **1**

.....  
 .....

- (b) What is the kinetic energy of the fastest-moving electrons? **3**

.....  
 .....

**Question 35 continues on page 21**