

QUESTION 12

- (a)
- The number of photoelectrons emitted per second is directly proportional to the intensity of radiation.
 - The energy of the emitted electrons depend on the frequency of the incident radiation.
 - There exists a threshold frequency for all surfaces, below which no electrons are emitted no matter the intensity of radiation.

(b) Given: Power of source = 6×10^{-3} Watts or Joules / s
 No of photons per second = 1×10^{16}

$$\text{Energy per photon} = \frac{\text{Power}}{\text{no of photons per second}}$$

$$= \frac{6 \times 10^{-3}}{1 \times 10^{16}}$$

$$E = hf = 6 \times 10^{-19} \text{ Joules}$$

Energy = $hf - W_0 = eV_0$ where W_0 is work function.

$$E - eV_0 = W_0$$

where V_0 is stopping potential

$$6 \times 10^{-19} - (1.6 \times 10^{-19}) \times (2.2) = W_0$$

$$6 \times 10^{-19} - 3.52 \times 10^{-19} = W_0$$

$$W_0 = 2.48 \times 10^{-19} \text{ Joules}$$

$$W_0 = \frac{2.48 \times 10^{-19}}{1.6 \times 10^{-19}} \text{ eV}$$

$$W_0 = 1.55 \text{ eV}$$

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Jessica J Manson



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