

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^{-2} watts or Joules/s

$$\text{No. of photons per second} = 1 \times 10^{16}$$

$$\begin{aligned} \text{Energy per photon} &= \frac{\text{Power}}{\text{no. of photons per second}} \\ &= \frac{6 \times 10^{-2}}{1 \times 10^{16}} \end{aligned}$$

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

Energy = $hf - w_0 = eV_0$ where w_0 is work function.

$E - eV_0 = w_0$ where V_0 is stopping potential

$$6 \times 10^{-19} - (1.6 \times 10^{-19}) \times (2.2) = w_0$$

$$6 \times 10^{-19} - 3.52 \times 10^{-19} = w_0$$

$$w_0 = 2.48 \times 10^{-19} \text{ Joules}$$

$$w_0 = \frac{2.48 \times 10^{-19}}{1.6 \times 10^{-19}} \text{ eV}$$

$$w_0 = 1.55 \text{ eV}$$

2014 2015 Physics Obj Answer

Christian Drosten

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