

## 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 =  $6 \times 10^{-3}$  Watts or Joules / s  
 No of photons per second =  $1 \times 10^{16}$

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

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

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

Energy =  $hf - W_0 = eV_0$  where  $W_0$  is work function.  
 $E - eV_0 = W_0$  where  $V_0$  is stopping potential  
 $6 \times 10^{-19} - (1.6 \times 10^{-19}) \times (2.2) = W_0$   
 $6 \times 10^{-19} - 3.52 \times 10^{-19} = W_0$   
 $W_0 = 2.48 \times 10^{-19} \text{ Joules}$   
 $W_0 = \frac{2.48 \times 10^{-19}}{1.6 \times 10^{-19}} \text{ eV}$   
 $W_0 = 1.55 \text{ eV}$

# Real Physics Obj And Essay 2014 15

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