

12aiv

Uranium-238 ($^{238}_{92}\text{U}$)

12bi

Given:

Kinetic energy of electron (KE) $1.8 \times 10^{-16} \text{ J}$

Work function of metal $\phi = 1.20 \times 10^{-16}$

Planck's constant, $h = 6.6 \times 10^{-34} \text{ Js}$

$$E_{\text{photon}} = \phi + KE \\ = 1.20 \times 10^{-16} + 1.80 \times 10^{-16} = 3.00 \times 10^{-16} \text{ J}$$

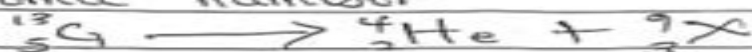
$$f = \frac{E_{\text{photon}}}{h} = \frac{3.00 \times 10^{-16}}{6.6 \times 10^{-34}} = \underline{\underline{4.545 \times 10^{17} \text{ Hz}}}$$

12bi

- (i) A cathode ray tube emits ~~out~~ electrons from the cathode
- (ii) A cathode ray tube produces a visible image on a phosphor-coated screen.

12ci

I. In alpha decay, the nucleus loses 4 units of mass number and 2 units of atomic number



II. Daughter nucleus is ^9_3Li (Lithium)

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