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0625 PHYSICS

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- (a) Table 8.1 shows some properties and values for α -particles, β -particles and γ -radiation.

Complete Table 8.1.

Table 8.1

type of radiation	number of protons	number of neutrons	charge/C	stopped by
α ${}^4_2\text{He}$	2	2	$+3.2 \times 10^{-19}$	thin sheet of paper
β ${}^0_{-1}\text{e}$	0	0	-1	thin sheet of aluminium
γ ${}^0_0\gamma$	0	0	0	thick concrete / lead

(2)

- (b) State how α -radiation changes the nucleus of an atom.

The nucleus of an atom will have one less neutron and one less proton.

(1)

- (c) A radiation detector used in a laboratory detects a background count rate of 20 counts/min. A radioactive source is placed in front of the radiation detector. The initial reading on the detector is 180 counts/min. The half-life of the source is 25 minutes.

Calculate the expected reading on the detector after 75 minutes.

Step ①: Identify & convert 180 to find initial count rate that is counts/min.

$$180 \text{ C/min} - 20 \text{ C/min} = \underline{160 \text{ C/min}}$$

Step ②: Calculate how many half-lives has passed

$$\frac{75 \text{ min}}{25 \text{ min}} = \underline{3 \text{ half-lives}}$$

Step ③: Set up a number line to calculate

Step ④: Calculate the resulting activity

$$= 60 + 20$$

$$= \underline{80 \text{ counts/min}}$$

correct
working

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Brendan G. Carr



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in any event in this new classification the basal angiosperms contain three superorders or five if one includes magnolianaes and ceratophyllanaes that are coordinate with the monocots also placed in their own superorder and ten additional superorders eudicots for a

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