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0625 PHYSICS

May/June 2023

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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 / thick 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.

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

Step ②: Calculate how many half-lives have passed

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

Step ③: Set up a number line to calculate

Step ④: Calculate the resulting activity

$$= 60 + 20$$

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

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