

SECTION A**Answer ALL questions.**

For questions 1–10, in Section A, select one answer from A to D and put a cross in the box ☐.
If you change your mind, put a line through the box ☒ and then
mark your new answer with a cross ☐.

- 1** A radiation detector is placed near a radioactive source and measures the count rate from the source. Different absorbers are placed between the detector and the source. The results are shown in the table.

Absorber	Corrected count rate/s ⁻¹
None	850
Paper	850
Aluminium foil	150
Lead sheet	20

Which of the following is emitted by the source?

- ☐ **A** α -radiation only
- ☐ **B** β -radiation only
- ☐ **C** α -radiation and β -radiation
- ☐ **D** β -radiation and γ -radiation

(Total for Question 1 = 1 mark)