

- 3 A radioactive source is placed a few centimetres away from a detector.

When a sheet of paper is placed between the source and the detector there is no change in the count rate.

When a lead sheet of thickness 0.5 cm is placed between the source and the detector the count rate is reduced to the background rate.

Which of the following is emitted by the source?

- ☐ A alpha and gamma radiation
- ☐ B beta and gamma radiation
- ☐ C beta radiation only
- ☐ D gamma radiation only

(Total for Question 3 = 1 mark)