

- 38** A nuclear isotope emits radiation which is detected by a Geiger-Müller tube held at a distance of about 10 cm from the radioactive source. The radiation is stopped completely by a 2 mm thick sheet of lead.

What can be deduced from this information about the emission from the isotope?

- A** It could be alpha and beta radiation, but not gamma radiation.
- B** It could be alpha and gamma radiation, but not beta radiation.
- C** It could be beta and gamma radiation, but not alpha radiation.
- D** It could be alpha, beta and gamma radiation.

- 39** What remains constant during β^- emission from a number of identical nuclei in a substance?