

3 The penetration of matter by radiation depends on the ionising power of the radiation.

Which of the following statements is correct?

- ☐ A α -particles are weakly ionising so they are stopped by thin paper.
- ☐ B α -particles are highly ionising so they only travel a few centimetres in air.
- ☐ C γ -radiation is highly ionising so it is highly penetrating.
- ☐ D γ -radiation is weakly ionising so it is not very penetrating.

(Total for Question 3 = 1 mark)