

**39** What is the approximate mass of an alpha particle?

- A**  $10^{-28}$  kg
- B**  $10^{-26}$  kg
- C**  $10^{-24}$  kg
- D**  $10^{-22}$  kg

**40** An actinium nucleus has a nucleon number of 227 and a proton number of 89. It decays to form a