

- 39** The decay of a nucleus of neptunium is accompanied by the emission of a β -particle and γ -radiation.

What effect (if any) does this decay have on the proton number and the nucleon number of the nucleus?

	proton number	nucleon number
A	increases	decreases
B	decreases	increases
C	unchanged	decreases
D	increases	unchanged

- 40** Radon-220 is radioactive and decays to Polonium-216 with the emission of an α -particle. The