A nucleus of element X emits an alpha particle to produce the nucleus ²³³₉₁Y.

Which of the following is the correct nucleon structure of element X?

A 95 protons and 235 neutrons

D 89 protons and 138 neutrons

B 93 protons and 144 neutrons

C 93 protons and 237 neutrons

(Total for Question 3 = 1 mark)