

- 30** During a particular fission process, a uranium-235 nucleus absorbs a slow-moving neutron. This initiates the fission reaction, creating a xenon-144 nucleus, a strontium-90 nucleus and two neutrons.

The binding energies per nucleon are:

Uranium-235 7.6 MeV

Xenon-144 8.4 MeV

Strontium-90 8.5 MeV

What is the energy released or absorbed in the reaction?

- A** 1.5×10^{-12} J of energy is absorbed
- B** 1.5×10^{-12} J of energy is released
- C** 3.0×10^{-11} J of energy is absorbed
- D** 3.0×10^{-11} J of energy is released