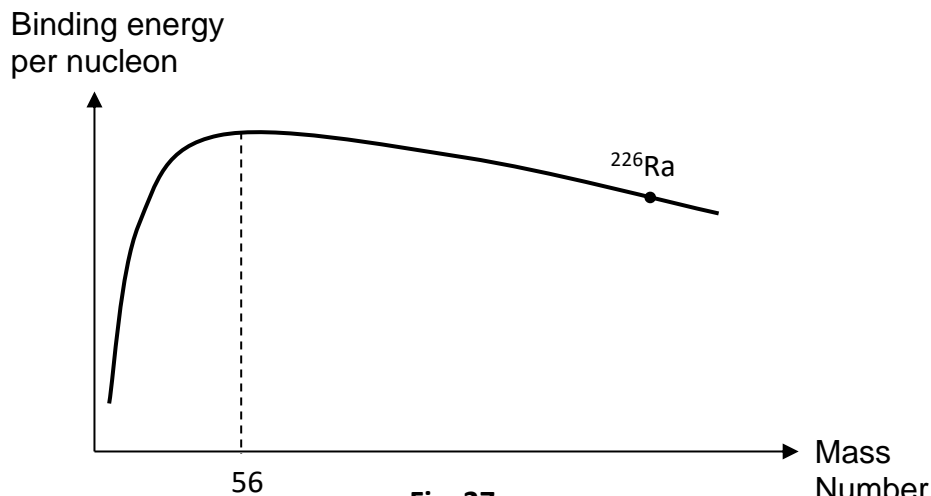


**27** Fig. 27 is a graph for a group of naturally-occurring nuclides.



**Fig. 27**

Which of the following statements is correct?

- A** Nuclei with high mass numbers undergo fusion with release of energy.
- B** When a nucleus of mass number 56 is formed, it releases the greatest amount of binding energy compared to the formation of nuclei of other mass numbers.
- C** When the nuclide  $^{226}\text{Ra}$  undergoes fission, the binding energy per nucleon is reduced.
- D** When small nuclei undergo fusion, the products have higher binding energy per nucleon.