

**30** Which of the statements regarding binding energy is true?

- A** Nuclei with low mass numbers tend to undergo nuclear fusion.
- B** Nuclei undergo fission or fusion in an attempt to reduce the binding energy per nucleon.
- C** Nuclei in the middle of the graph of binding energy against mass number tend to be the least stable.
- D** The greater the mass defect of a substance, the greater its binding energy will be and hence the substance is more stable.

**END OF PAPER**