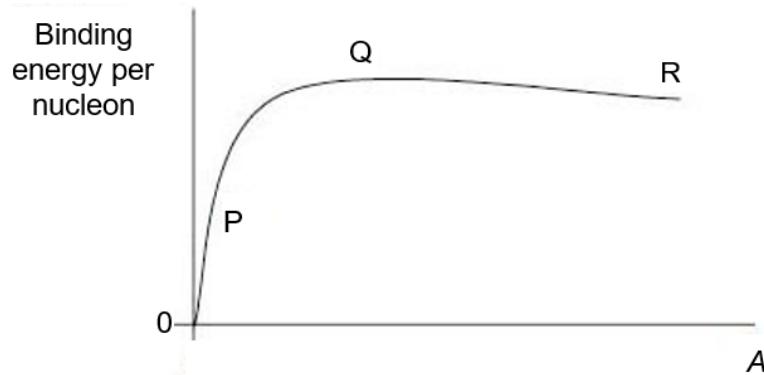


- 30** The graph shows how the binding energy per nucleon of a nucleus varies with nucleon number,  $A$ .



Which of the following statements is **not** true?

- A** Energy is released in nuclear fission reactions from nuclei in region P.
- B** Nuclei in region Q are more stable than nuclei in region R.
- C** Nuclear fusion reactions from nuclei in region P produce nuclei closer to region Q.
- D** The binding energy per nucleon increases most significantly when nuclei in region P undergo nuclear fusion reactions.

**End of Paper**