

3 The fusion of nuclei of ^{56}Fe in a star does not release energy.

Which of the following is a reason for this?

- ☐ A The magnitude of nuclear binding energy is the least for ^{56}Fe .
- ☐ B The magnitude of nuclear binding energy is the greatest for ^{56}Fe .
- ☐ C The magnitude of binding energy per nucleon is the least for ^{56}Fe .
- ☐ D The magnitude of binding energy per nucleon is the greatest for ^{56}Fe .

(Total for Question 3 = 1 mark)