

**29** A stationary nucleus X decays into two smaller nuclei Y and Z. Y is of a smaller mass compared to Z.

Which one of the following statements is correct?

- A** The mass-energy of X is greater than the total mass-energies of Y and Z.
- B** The binding energy of X is greater than the total binding energies of Y and Z.
- C** The kinetic energy of Y is greater than that of Z.
- D** The kinetic energy of Y is less than that of Z.