

**28** The masses of the neutron and proton are respectively  $1.0087\ u$  and  $1.0073\ u$ . Two neutrons and two protons combine to form a helium nucleus (mass =  $4.0015\ u$ ). Take  $1\ u = 931\ \text{MeV}$ . The binding energy of the helium nucleus is

- A**  $28.4\ \text{MeV}$       **B**  $2.84\ \text{MeV}$       **C**  $142\ \text{MeV}$       **D**  $14.2\ \text{MeV}$