

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

- A** 28.4 MeV      **B** 2.84 MeV      **C** 142 MeV      **D** 14.2 MeV