

**29** The rest-masses of deuteron  ${}^2_1H$ , proton and neutron are 2.0150 u, 1.0086 u and 1.0097 u respectively. Which one of the following reactions takes place so that the deuteron may disintegrate to a proton and neutron?

- A** Releasing a photon of energy 2 MeV.
- B** Releasing a photon of energy 3 MeV.
- C** Capturing a photon of energy 2 MeV.
- D** Capturing a photon of energy 3 MeV.