

29 The rest-masses of deuteron 2_1H , proton and neutron are 2.0150u, 1.0086u and 1.0097u 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.

30 In a therapy unit, patients are given treatment from a certain radioactive source. This source