

29 The rest-masses of deuteron ${}^2_1\text{H}$, 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.