28 The rest-masses of deuteron $^2_1$H , proton and neutron are 2.0150 u, 1.0086 u and 1.0097 u respectively. A deuteron may disintegrate to a proton and neutron if it

    A emits a photon of energy 2 MeV

    B emits a photon of energy 3 MeV

    C captures a photon of energy 2 MeV

    D captures a photon of energy 3 MeV