

29 The rest masses of a tritium nucleus (${}^3_1\text{H}$), proton and neutron are 3.0160 u, 1.0086 u and 1.0097 u respectively. A stationary tritium nucleus may disintegrate to the respective proton(s) and neutron(s) if it

- A** captures a photon of energy 10 MeV.
- B** captures a photon of energy 12 MeV.
- C** emits a photon of energy of 10 MeV.
- D** emits a photon of energy of 12 MeV.