

- 30** Examination of γ -rays emitted by a nucleus reveals a line spectrum. This is probably because
- A** the orbital distance of electrons in the nucleus is quantised.
 - B** there is a constant value of mass defect for the formation of the nucleus from individual protons and neutrons.
 - C** the energy of nucleons is discrete.
 - D** electrons, on entering the nucleus, decelerate and release the radiation.