ES/MS 401 Nuclear Physics

Multiple choice questions

(01: mark each, Total marks: 100)

- Given that 3Li⁷ = 7.01816 amu, 3Li⁶ = 6.01692 amu and on¹ = 1.00893 amu. The binding energy of a neutron in 3Li⁷ nucleus is
 - a) 0.51 MeV

c) 1.04 MeV

b) 2.08 MeV

- d) 7.17 MeV
- If the nuclear radius of ²⁷Al is 3.6 Fermi, the approximate nuclear radius of ⁶⁴Cu in Fermi is
 - a) = 4.8

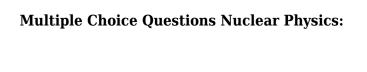
c) 3.6

b): 2.4

- d) 1.2
- 3 Isotopes are atoms having
 - a) Same number of protons but different number of neutrons
 - b) Same number of protons but different number of protons
 - c) Same number of protons and neutrons
 - d) None of the above
- 4 The nucleus radius is of the order of
 - a) 10°5 m
 - b) 10⁻¹⁵ m.
 - c) 10⁻⁶ m
 - d) 10⁻⁷ m
- 5 The difference between $_{92}U^{216}$ and $_{92}U^{216}$ atoms is that
 - a) U²⁵⁸ contains 3 more neutrons
 - b) U^{29} contains 3 more neutrons nd three more electrons
 - c) U^{238} contains 3 more protons and 3 more electrons
 - d) U298 contains 3 more protons
- 6 Which of the following statements is true for nuclear forces
 - a) They are equal in strength to the electromagnetic forces
 - b) They are short range forces
 - c) They obey the inverse third power law of distance
 - d) They obey the inverse square law of distance
- 7 Of the three basic forces gravitational, electrostatic and nuclear which two are able to provide an attractive force between two neutrons
 - a) gravitation and electrostatic
 - b) electrostatic and nuclear

Multiple Choice Questions Nuclear Physics

Scott C. Dulebohn



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