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

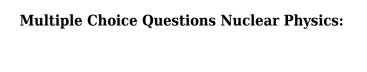
c) 3.6

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

Roman Wölfel



Reviewing Multiple Choice Questions Nuclear Physics: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "Multiple Choice Questions Nuclear Physics," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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