

ES/MS 401 Nuclear Physics
Multiple choice questions
(01: mark each, Total marks: 100)

1. Given that ${}_3\text{Li}^7 = 7.01816$ amu, ${}_3\text{Li}^6 = 6.01692$ amu and ${}_0\text{n}^1 = 1.00893$ amu. The binding energy of a neutron in ${}_3\text{Li}^7$ nucleus is
 - a) 0.51 MeV
 - b) 2.08 MeV
 - c) 1.04 MeV
 - d) 7.17 MeV
2. If the nuclear radius of ${}^{27}\text{Al}$ is 3.6 Fermi, the approximate nuclear radius of ${}^{64}\text{Cu}$ in Fermi is
 - a) 4.8
 - b) 2.4
 - c) 3.6
 - 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 ${}_{92}\text{U}^{239}$ and ${}_{92}\text{U}^{238}$ atoms is that
 - a) U^{238} contains 3 more neutrons
 - b) U^{238} contains 3 more neutrons and three more electrons
 - c) U^{238} contains 3 more protons and 3 more electrons
 - d) U^{238} 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

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TD Snyder



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