

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

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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)  $\text{U}^{238}$  contains 3 more neutrons
  - b)  $\text{U}^{238}$  contains 3 more neutrons and three more electrons
  - c)  $\text{U}^{238}$  contains 3 more protons and 3 more electrons
  - d)  $\text{U}^{238}$  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

# Multiple Choice Questions Nuclear Physics

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