#### ES/MS 401 Nuclear Physics

#### Multiple choice questions

#### (01: mark each, Total marks: 100)

- Given that 3Li<sup>7</sup> = 7.01816 amu, 3Li<sup>6</sup> = 6.01692 amu and on<sup>1</sup> = 1.00893 amu. The binding energy of a neutron in 3Li<sup>7</sup> nucleus is
  - a) 0.51 MeV

c) 1.04 MeV

b) 2.08 MeV

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

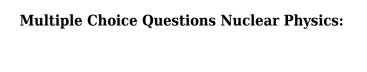
c) 3.6

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<sup>-15</sup> m.
  - c) 10<sup>-6</sup> m
  - d) 10<sup>-7</sup> m
- 5 The difference between  $_{92}U^{216}$  and  $_{92}U^{216}$  atoms is that
  - a) U<sup>258</sup> 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**

**Ying Liu** 



Unveiling the Power of Verbal Beauty: An Emotional Sojourn through Multiple Choice Questions Nuclear Physics

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#### **Table of Contents Multiple Choice Questions Nuclear Physics**

- 1. Understanding the eBook Multiple Choice Questions Nuclear Physics
  - The Rise of Digital Reading Multiple Choice Questions Nuclear Physics
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Multiple Choice Questions Nuclear Physics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Multiple Choice Questions Nuclear Physics
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Multiple Choice Questions Nuclear Physics
  - Personalized Recommendations

- Multiple Choice Questions Nuclear Physics User Reviews and Ratings
- Multiple Choice Questions Nuclear Physics and Bestseller Lists
- 5. Accessing Multiple Choice Questions Nuclear Physics Free and Paid eBooks
  - Multiple Choice Questions Nuclear Physics Public Domain eBooks
  - Multiple Choice Questions Nuclear Physics eBook Subscription Services
  - Multiple Choice Questions Nuclear Physics Budget-Friendly Options
- 6. Navigating Multiple Choice Questions Nuclear Physics eBook Formats
  - o ePub, PDF, MOBI, and More
  - Multiple Choice Questions Nuclear Physics Compatibility with Devices
  - Multiple Choice Questions Nuclear Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Multiple Choice Questions Nuclear Physics
  - Highlighting and Note-Taking Multiple Choice Questions Nuclear Physics
  - Interactive Elements Multiple Choice Questions Nuclear Physics
- 8. Staying Engaged with Multiple Choice Questions Nuclear Physics
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Multiple Choice Questions Nuclear Physics
- 9. Balancing eBooks and Physical Books Multiple Choice Questions Nuclear Physics
  - ∘ Benefits of a Digital Library
  - Creating a Diverse Reading Collection Multiple Choice Questions Nuclear Physics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Multiple Choice Questions Nuclear Physics
  - Setting Reading Goals Multiple Choice Questions Nuclear Physics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Multiple Choice Questions Nuclear Physics
  - Fact-Checking eBook Content of Multiple Choice Questions Nuclear Physics

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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