



SHRI LAL BAHADUR SHASTRI DEGREE COLLEGE, GONDA

श्री लाल बहादुर शास्त्री डिग्री कॉलेज, गोण्डा

AN AFFILIATED COLLEGE OF DR RAMMANOHAR LOHIA AVADH UNIVERSITY, AYODHYA, (U.P)

Department of Physics

B.Sc VI Sem

Solid State & Nuclear Physics

Name: ----- Roll Number: -----

1. What is the charge of a nucleus?
 - a) Negative
 - b) Positive
 - c) Neutral
 - d) Both positive and negative
2. The size of a nucleus is typically of the order of:
 - a) 10^{-15} meters
 - b) 10^{-14} meters
 - c) 10^{-13} meters
 - d) 10^{-12} meters
3. The mass number of an atom is the sum of:
 - a) Protons and electrons
 - b) Neutrons and electrons
 - c) Protons and neutrons
 - d) Protons, neutrons, and electrons
4. Which of the following is true about the nucleus of an atom?
 - a) It contains only protons
 - b) It contains protons and neutrons
 - c) It contains only neutrons
 - d) It contains electrons and neutrons
5. What is the name of the force that holds the nucleus together?
 - a) Gravitational force
 - b) Electromagnetic force
 - c) Strong nuclear force
 - d) Weak nuclear force
6. The number of protons in the nucleus is called the:
 - a) Mass number
 - b) Atomic number
 - c) Neutron number
 - d) Isotope number
7. Which of the following is the lightest particle in the nucleus?
 - a) Proton
 - b) Neutron
 - c) Electron
 - d) Photon
8. The nucleus of an atom is typically:
 - a) Positively charged
 - b) Negatively charged
 - c) Neutral
 - d) Both positive and negative
9. The binding energy of a nucleus is:
 - a) The energy required to split the nucleus into its constituent particles
 - b) The energy required to add electrons to the nucleus
 - c) The energy released during fission
 - d) The energy released during fusion

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10. The concept of the "nuclear force" primarily involves:
 - a) Attraction between electrons
 - b) Attraction between neutrons
 - c) Attraction between protons
 - d) Attraction between nucleons (protons and neutrons)
11. Which of the following particles does not contribute to the mass of an atom's nucleus?
 - a) Proton
 - b) Neutron
 - c) Electron
 - d) Both b and c
12. What is the approximate diameter of a typical atomic nucleus?
 - a) 10^{-14} meters
 - b) 10^{-12} meters
 - c) 10^{-10} meters
 - d) 10^{-8} meters
13. Which force is responsible for the repulsion between two positively charged protons in the nucleus?
 - a) Gravitational force
 - b) Electromagnetic force
 - c) Strong nuclear force
 - d) Weak nuclear force
14. The strong nuclear force is effective over:
 - a) Long distances
 - b) Short distances
 - c) Infinite distances
 - d) Very short distances (about 10^{-15} m)
15. Which of the following best describes the composition of the nucleus of an atom?
 - a) Only electrons
 - b) Protons and neutrons
 - c) Protons, neutrons, and electrons
 - d) Protons and positrons
16. The number of electron in nucleus X of atomic number Z and mass number A is
 - a) 0
 - b) Z
 - c) A-Z
 - d) A
17. The nucleon is the name used for
 - a) All light nuclei
 - b) Hydrogen Nuclei only
 - c) Neutrons only
 - d) Proton & Neutrons Both
18. Packing fraction is
 - a) Always Positive
 - b) Always Negative
 - c) Zero
 - d) May be Zero or have positive or negative value
19. Which is not a Magic Number
 - a) 8
 - b) 12
 - c) 50
 - d) 58
20. The binding energy of α particle in MeV is
 - a) 7
 - b) 28.3
 - c) 0
 - d) infinite

Shri Lal Bahadur Shastri Degree College, Gonda

Department of Physics

Continuous and Comprehensive Evaluation

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B.Sc.VI Semester

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