

Jan. 2024

The following is an aid to guide your studies in the relevant part of PHY 114. I expect you to read the topics mentioned, and answer the associated questions. On or before 20/2/2024, more questions will be raised on these topics and/or solutions to these questions will be demanded of you by way of homework, and you will be expected to submit them via your class Rep. That will count as ¼ of your CA.

- 1) Study exhaustively chapters on AC circuit and summary of Maxwell's equations.
- 2) Discuss the applications of radioactivity (medical, industrial archaeological, etc). What is binding energy of a nucleus per nucleon? And how do you calculate it?
- 3) Study carefully the contributions of Rutherford and his students to the evolution of modern theory of the atom especially his scattering experiment.
- 4) Study extensively the Bohr's model of the atom and be prepared to show how he used his theory to solve the problem of the Hydrogen spectrum in terms of electronic transitions. What other problems offered a challenge to the physicists of that age?
- 4) The major challenges defying classical physics by the end of 19th century include (list them). How did Einstein solve the problem of photoelectric effect?
- 5) An alpha particle is shot with a speed of 2×10^7 m/s directly towards the nucleus of a gold atom. What is the distance of closest approach to the nucleus? (Take the mass of alpha particle = 6.64×10^{-27} kg, charge on the alpha particle = 3.2×10^{-19} C, atomic number of Au = 79, while a proton charge = $+1.6022 \times 10^{-19}$ C)
- 6) If n stands for integer, and L is the magnitude of angular momentum, and $\hbar$ is the reduced Planck's constant, which of the following is a consequence of Bohr's atomic theory? A) $L = n\hbar$ B) $L = 1/2n\hbar$ C) $L = nh$ D) $L = (n+1)\pi\hbar$
- 7) Calculate the radius of the third excited state in a Bohr atom whose ground state radius is a_0 , and proton number 1. A) $5a_0$ B) $16a_0$ C) $9a_0$ D) $64a_0$
- 8) If the total energy of a Hydrogen-like atom is Y eV. What is the expression for the potential energy of the system in terms of Y ? A) $-Y/2$ eV B) $-2Y$ eV C) $2Y$ eV D) $-Y$ eV
- 9) In a simple model of Bohr Hydrogen atom, it was found that the magnitude of the Coulomb force of attraction between the nucleus and a single electron is given by $|F| = Ke^2/r^2$, which of the following is an expression for the total energy of the Bohr Hydrogen atom assuming that the potential energy of the system is zero at infinity?
- 10) Light of wavelength 430nm is incident on the following metals, which are listed together with their respective work functions (eV). Which metals will show photoelectric emission? I) Cs (2.14 eV) II) K (2.30 eV) III) Na (2.75 eV) IV) Ca (3.20 eV) V) Mo (4.17 eV) ($h = 6.63 \times 10^{-34}$ Js, $c = 3 \times 10^8$ ms⁻¹, 1eV = 1.602×10^{-19} J; all symbols have their usual meaning.)
- 11) A proton and an electron have the same kinetic energy. If the mass of the proton is 1800 times the mass of the electron, find the ratio of their de Broglie wavelengths.
- 12) In the photoelectric experiment performed by Lenard Philip in 1886, which of the following was not an accurate observation? A) intensity of some incident radiation increased the value of the ammeter reading. B) only certain frequencies was able to cause photoelectric emission C) photoelectric emission was instantaneous D) the ammeter read zero when radiations with frequencies equal to or greater than the fundamental frequencies of the material were applied at zero potential difference.
- 13) If the experimental mass of the hydrogen isotope, deuterium is 2.014102u, what is the binding energy per nucleon of Deuterium? (Take mass of a proton = 1.007825u, mass of a neutron = 1.008665u, 1 amu = 931.49 MeV, 1eV = 1.6×10^{-19} J)

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Table of Contents Phy124 Tma Question

1. Understanding the eBook Phy124 Tma Question
 - The Rise of Digital Reading Phy124 Tma Question
 - Advantages of eBooks Over Traditional Books
2. Identifying Phy124 Tma Question
 - 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 Phy124 Tma Question
 - User-Friendly Interface
4. Exploring eBook Recommendations from Phy124 Tma Question
 - Personalized Recommendations

- Phy124 Tma Question User Reviews and Ratings
- Phy124 Tma Question and Bestseller Lists
- 5. Accessing Phy124 Tma Question Free and Paid eBooks
 - Phy124 Tma Question Public Domain eBooks
 - Phy124 Tma Question eBook Subscription Services
 - Phy124 Tma Question Budget-Friendly Options
- 6. Navigating Phy124 Tma Question eBook Formats
 - ePub, PDF, MOBI, and More
 - Phy124 Tma Question Compatibility with Devices
 - Phy124 Tma Question Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Phy124 Tma Question
 - Highlighting and Note-Taking Phy124 Tma Question
 - Interactive Elements Phy124 Tma Question
- 8. Staying Engaged with Phy124 Tma Question
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Phy124 Tma Question
- 9. Balancing eBooks and Physical Books Phy124 Tma Question
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Phy124 Tma Question
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Phy124 Tma Question
 - Setting Reading Goals Phy124 Tma Question
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Phy124 Tma Question
 - Fact-Checking eBook Content of Phy124 Tma Question

- 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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