

Time: 3 Hours

Max.M. 85 Min.M.28

Section-A (Objective Type Question)

(5×2=10)

Note:- Attempt all questions. Each question carries 02 marks.

Q. 01 Choose the correct option :-

- (i). The value of principle quantum Number (n) the first excited state of hydrogen atom is :-
(a) $n = 1$ (b) $n = 0$ (c) $n = 2$ (d) None of these
- (ii). According to variation method the ground state energy of the helium atom is :-
(a) $-2.75 \text{ e}^2/a_0$ (b) $-2.85 \text{ e}^2/a_0$ (c) $+2.75 \text{ e}^2/a_0$ (d) $+2.85 \text{ e}^2/a_0$
- (iii). K. G. Equation is given as :-
(a) $\nabla^2 \varphi - \frac{1}{c^2} \frac{\partial^2 \varphi}{\partial t^2} + \frac{m^2 c^2}{\hbar^2} \varphi = 0$ (b) $\nabla^2 \varphi - \frac{1}{c^2} \frac{\partial^2 \varphi}{\partial t^2} - \frac{m^2 c^2}{\hbar^2} \varphi = 0$
(c) $\nabla^2 \varphi + \frac{1}{c^2} \frac{\partial^2 \varphi}{\partial t^2} - \frac{m^2 c^2}{\hbar^2} \varphi = 0$ (d) $\nabla^2 \varphi + \frac{1}{c^2} \frac{\partial^2 \varphi}{\partial t^2} + \frac{m^2 c^2}{\hbar^2} \varphi = 0$
- (iv). Dirac's equation is :-
(a) $H = c \vec{\alpha} \cdot \vec{p} + \beta mc^2$ (b) $H = c \vec{\alpha} \cdot \vec{p} - \beta mc^2$
(c) $H + c \vec{\alpha} \cdot \vec{p} - \beta mc^2 = 0$ (d) None of these
- (v). For $\mu = \nu$, the metric tensor $g_{\mu\nu}$ is
(a) 0 (b) 1 (c) ∞ (d) -1

Section-B (Short Answer Type Question)

(5×7=35)

Note:- Attempt any five questions. Each question carries 07 marks.

- Q. 02 What is variation method? find out the ground state energy of hydrogen atom with it?
- Q. 03 What is Stark effect? Explain the first order Stark effect in hydrogen atom.
- Q. 04 What is W. K. B. approximation? Explain its principle.
- Q. 05 Explain the Fermi - Golden Rule.
- Q. 06 Explain the harmonic perturbation.
- Q. 07 What is K. G. Equation? Drive the equation of continuity with it.
- Q. 08 Derive the K. G. Equation in electromagnetic field.
- Q. 09 Explain Born - approximation. Derive the condition for validity of it.
- Q. 10 Explain adiabatic approximation method.
- Q. 11 Explain Einstein's A and B Coefficients.

Section-C (Long Answer Type Question)

(2×20=40)

Note:- Attempt any two questions. Each question carries 20 marks.

- Q. 12 What is perturbed harmonic oscillator? find out the first order and second order perturbation energy when -
(a) Perturbation energy term is $\propto x$ (b) Perturbation energy term is $\propto x^2$
- Q. 13 Explain the time - dependent perturbation theory? Find the transition probability of the system for the transition from with state to K^{th} state and also give its physical significance.
- Q. 14 Explain the motion of a charged particle in an electromagnetic field with the help of Time - dependent perturbation theory.
- Q. 15 What is Dirac's equation? Find the Dirac's equations for free particle.
- Q. 16 Find the differential scattering cross - section with the help of partial Wave analysis?

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Table of Contents 1 1 2quiz Texas Physics Sem 2

1. Understanding the eBook 1 1 2quiz Texas Physics Sem 2
 - The Rise of Digital Reading 1 1 2quiz Texas Physics Sem 2
 - Advantages of eBooks Over Traditional Books
2. Identifying 1 1 2quiz Texas Physics Sem 2
 - 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 1 1 2quiz Texas Physics Sem 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1 1 2quiz Texas Physics Sem 2
 - Personalized Recommendations
 - 1 1 2quiz Texas Physics Sem 2 User Reviews and Ratings
 - 1 1 2quiz Texas Physics Sem 2 and Bestseller Lists
5. Accessing 1 1 2quiz Texas Physics Sem 2 Free and Paid eBooks

- 1 1 2quiz Texas Physics Sem 2 Public Domain eBooks
- 1 1 2quiz Texas Physics Sem 2 eBook Subscription Services
- 1 1 2quiz Texas Physics Sem 2 Budget-Friendly Options
- 6. Navigating 1 1 2quiz Texas Physics Sem 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - 1 1 2quiz Texas Physics Sem 2 Compatibility with Devices
 - 1 1 2quiz Texas Physics Sem 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1 1 2quiz Texas Physics Sem 2
 - Highlighting and Note-Taking 1 1 2quiz Texas Physics Sem 2
 - Interactive Elements 1 1 2quiz Texas Physics Sem 2
- 8. Staying Engaged with 1 1 2quiz Texas Physics Sem 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1 1 2quiz Texas Physics Sem 2
- 9. Balancing eBooks and Physical Books 1 1 2quiz Texas Physics Sem 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1 1 2quiz Texas Physics Sem 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 1 1 2quiz Texas Physics Sem 2
 - Setting Reading Goals 1 1 2quiz Texas Physics Sem 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 1 1 2quiz Texas Physics Sem 2
 - Fact-Checking eBook Content of 1 1 2quiz Texas Physics Sem 2
 - 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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