

## Section-A (Objective Type Question)

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

(5×2=10)

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)  $-2.75 e^2/a_0$  (b)  $-2.85 e^2/a_0$  (c)  $+2.75 e^2/a_0$  (d)  $+2.85 e^2/a_0$~~
- (iii). K. G. Equation is given as :-  
 (a)  $\nabla^2\phi - \frac{1}{c^2} \frac{\partial^2\phi}{\partial t^2} + \frac{m^2c^2}{h^2} \phi = 0$  (b)  $\nabla^2\phi - \frac{1}{c^2} \frac{\partial^2\phi}{\partial t^2} - \frac{m^2c^2}{h^2} \phi = 0$   
 (c)  $\nabla^2\phi + \frac{1}{c^2} \frac{\partial^2\phi}{\partial t^2} - \frac{m^2c^2}{h^2} \phi = 0$  (d)  $\nabla^2\phi + \frac{1}{c^2} \frac{\partial^2\phi}{\partial t^2} + \frac{m^2c^2}{h^2} \phi = 0$
- (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)  $\infty$  (d) -1

## Section-B (Short Answer Type Question)

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

(5×7=35)

- 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)

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

(2×20=40)

- 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  $K^{\text{th}}$  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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