

Department of Physics and Astrophysics, University of Delhi  
M.Sc. Physics Final Examination/ II Sem.  
**QUANTUM MECHANICS II/PH-CT406**  
Attempt ANY FIVE questions.

Time: 3 hrs

Max. Marks: 70  
Date : 21 May, 2024

1. (a) In a two-level system the transition probability between the states (first order) is given by

$$P_{12}(t) = \left| -\frac{i}{\hbar} \int_0^t \langle \psi_2 | \hat{V}(t') | \psi_1 \rangle e^{-i\omega_{21}t'} dt' \right|^2$$

- (i) If  $\hat{V}$  does not depend upon time then show that  $P_{12}(t)$  is an oscillating function. [2]  
(ii) Calculate its time period and condition for the transition probability to be maximum. [4]  
(b) For a central potential  $V(r) = V_0 e^{-\alpha r}$  calculate the differential and total scattering cross-sections. Here  $\alpha$  is real constant. [8]

2. (a) (i) Consider a particle with  $1/2$ -spin, write all the possible states in  $|nljm_j\rangle$  for  $n = 2$ . [2]  
(ii) For weak-field Zeeman effect the energy correction is given by

$$\Delta E \approx \langle nljm_j | \frac{e}{2m} \vec{L}_{\text{orb}} \cdot (\vec{L} + 2\vec{S}) | nljm_j \rangle.$$

Qualitatively plot the energy correction vs  $\vec{B}_{\text{ext}}$  for all the possible states in part(i). [6]

- (b) Consider a particle initially ( $t < 0$ ) in the ground state of an infinite potential well in 1-d with its walls at  $x = 0$  and  $x = L$ . Now at  $t = 0$  the wall at  $x = L$  is suddenly moved to  $x = 8L$ . [3]  
(i) Find the energy levels and eigen states for  $t > 0$ . [3]  
(ii) In this case, calculate the ratio of the probability of finding the particle in the first excited state to the ground state of the new potential well. [4]

3. (a) Consider a particle of mass  $m$  in a 2-d square box of length  $L$ . A weak perturbation is given as

$$V(x, y) = V_0 L^2 \delta(x - x_0) \delta(y - y_0)$$

For this

- (i) Calculate the first-order correction to energy of the ground state. [3]  
(ii) Obtain expression for energy of the first excited state upto linear order in  $V_0$ . What is the difference between energy sub-levels for  $(x_0, y_0) = (L/4, L/4)$ . [5]  
(iii) What choices of  $(x_0, y_0)$  does not lift degeneracy of the first excited state. [2]

- (b) The density matrix for an ensemble of spin-1/2 particles is written as (in the  $S_z$  basis)

$$\hat{\rho} = \begin{bmatrix} 1/4 & \gamma \\ \gamma^* & p \end{bmatrix}.$$

Determine the value of  $p$ . Also, calculate the possible value(s) of  $\gamma$  for the density matrix to represent a pure state. [4]

4. (a) Consider a particle of mass  $m$  and energy  $E$  incident from left on the following potential

$$V(x) = \begin{cases} 0 & x < -L \\ -V_0 & -L \leq x \leq 0 \\ \infty & x > 0 \end{cases}$$

- (i) If the incoming wave is written as  $Ae^{ikx}$ , with  $k = \sqrt{2mE}/\hbar$ , find the reflected wave. [2]  
(ii) Show that the reflected wave has the same amplitude as incident wave. [2]  
(iii) Calculate the phase shift for a very deep potential, i.e.,  $E \ll V_0$ . [4]

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**N Colangelo**



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shape memory alloy actuators are comprehended The book is structured in four sections design fabrication and simulation control systems medical applications and fault detection Seven chapters are published following a rigorous selection process In the first section a study carried out to investigate experimentally and by numerical simulations a microscale plasma actuator the design fabrication numerical simulations and experimental investigations of a polymeric microgripper designed using the cascaded V shaped electrothermal actuators a review of the development of ionic polymer actuator with introduction of two kinds of typical polymer actuators ionic polymer metal composites and bucky gel actuator with their basic principle and fabrication process and typical applications and a methodology of designing and testing wideband actuators and energy harvesters treated as one mechanical resonator with a discussion on shock harvester resonant harvester and energy transmission system are presented The second section has a chapter dedicated to modeling system identification and control of electromagnetic actuators with main focus on the actuators used in magnetic levitation in fuel injection systems and in variable valve timing The third section presents a study focused on quantifying the decline in tactile sensation associated with diabetic neuropathy and developed a measurement device that used a thin shaped memory alloy wire as the actuator The fourth section includes a chapter presenting a two level fault diagnosis and root cause analysis scheme for a class of interconnected invertible dynamic systems which aims at detecting and identifying actuator fault and causes

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1. Understanding the eBook Physics 2june Qp
  - The Rise of Digital Reading Physics 2june Qp
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics 2june Qp
  - 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 Physics 2june Qp
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 2june Qp
  - Personalized Recommendations
  - Physics 2june Qp User Reviews and Ratings
  - Physics 2june Qp and Bestseller Lists



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