

Total No. of Questions : 4]

P1157

SEAT No. :

[Total No. of Pages : 2

[5017]-4014

T.Y. B.Sc.

PHYSICS

**PH - 342 : Quantum Mechanics
(2013 Pattern) (Paper-II) (Semester-IV)**

Time : 2 Hours]

[Max. Marks : 40

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) Use of calculator & log-table is allowed.*

Q1) Attempt All of the following (One mark each):

[10]

- a) State de Broglie hypothesis.
- b) What is wave packet?
- c) State normalisation condition for wave function.
- d) State Ehrenfest's first theorem.
- e) State any two applications or uses of tunneling effect.
- f) State the nature of energy spectrum of free particle.
- g) Define degeneracy.
- h) Prove that $[\hat{A}, \hat{B} + \hat{C}] = [\hat{A}, \hat{B}] + [\hat{A}, \hat{C}]$.
- i) State the parity of functions $f(x) = x^3$ & $f(x) = x^2 + 2$.
- j) Calculate the wavelength of electron which is acted by potential of 54 volt in Davison & germer experiment.

Q2) Attempt Any Two of the following (5 marks each):

[10]

- a) State & prove Heisenberg's uncertainty principle.
- b) Obtain Schrodinger's time dependent equation.
- c) What is rigid rotator? Apply Schrodinger's equation to solve rigid rotator free axis to obtain eigen values & eigen functions.

PTO.

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Table of Contents Engineering Physics Pune University Paper Pattern 2013

1. Understanding the eBook Engineering Physics Pune University Paper Pattern 2013
 - The Rise of Digital Reading Engineering Physics Pune University Paper Pattern 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Physics Pune University Paper Pattern 2013
 - 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 Engineering Physics Pune University Paper Pattern 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Physics Pune University Paper Pattern 2013
 - Personalized Recommendations
 - Engineering Physics Pune University Paper Pattern 2013 User Reviews and Ratings
 - Engineering Physics Pune University Paper Pattern 2013 and Bestseller Lists

5. Accessing Engineering Physics Pune University Paper Pattern 2013 Free and Paid eBooks
 - Engineering Physics Pune University Paper Pattern 2013 Public Domain eBooks
 - Engineering Physics Pune University Paper Pattern 2013 eBook Subscription Services
 - Engineering Physics Pune University Paper Pattern 2013 Budget-Friendly Options
6. Navigating Engineering Physics Pune University Paper Pattern 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Physics Pune University Paper Pattern 2013 Compatibility with Devices
 - Engineering Physics Pune University Paper Pattern 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Physics Pune University Paper Pattern 2013
 - Highlighting and Note-Taking Engineering Physics Pune University Paper Pattern 2013
 - Interactive Elements Engineering Physics Pune University Paper Pattern 2013
8. Staying Engaged with Engineering Physics Pune University Paper Pattern 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Physics Pune University Paper Pattern 2013
9. Balancing eBooks and Physical Books Engineering Physics Pune University Paper Pattern 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Physics Pune University Paper Pattern 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Engineering Physics Pune University Paper Pattern 2013
 - Setting Reading Goals Engineering Physics Pune University Paper Pattern 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Physics Pune University Paper Pattern 2013
 - Fact-Checking eBook Content of Engineering Physics Pune University Paper Pattern 2013
 - 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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