

DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY  
JALANDHAR

B.Tech. – I/II SEMESTER

PH-101 Physics

End Semester Exam (summer Course June 21, 2012)

Duration: 3 hours

Max Marks: 50

Note: Attempt all questions.

1. (a) Show that vector  $\vec{A} = -\frac{2xz}{x^2} \hat{i} + \frac{z^2}{x^2} \hat{j} + \frac{2yz}{x^2} \hat{k}$  is irrotational.

(3)

(b) Derive an expression for Clausius Mossotti relation.

(4)

2. Write Maxwell's equations and discuss their physical significance.

(4)

3. State Biot-Savart's Law. Use the same to find the field strength at the centre of a current carrying circular loop.

(4)

4. (a) Find the relation between Einstein's coefficients.

(3)

(b) Explain the construction and working of He-Ne laser. Draw the energy level diagram and indicate the wavelength of radiation.

(4)

5. Derive an expression for the Einstein's mass- energy relation.

(3)

6. Determine mass and speed of an electron having kinetic energy 100 keV.

(4)

7. Using Uncertainty Principle, establish the fact the electrons cannot reside inside a nucleus.

(3)

8. What is a wave packet? Prove that group velocity is equal to velocity of the moving particle.

(5)

9. (i) A particle of mass  $m$  confined to move inside an infinite deep potential well

$$V(x) = \begin{cases} +\infty & x < a \\ 0 & 0 \leq x \leq a \\ +\infty & x > a \end{cases}$$

Find the wave function and energy of the particle.

(4)

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**Guillaume Favre**



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## **Table of Contents Last Year Question Paper For Ouat**

1. Understanding the eBook Last Year Question Paper For Ouat
  - The Rise of Digital Reading Last Year Question Paper For Ouat
  - Advantages of eBooks Over Traditional Books
2. Identifying Last Year Question Paper For Ouat
  - 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 Last Year Question Paper For Ouat
  - User-Friendly Interface
4. Exploring eBook Recommendations from Last Year Question Paper For Ouat
  - Personalized Recommendations
  - Last Year Question Paper For Ouat User Reviews and Ratings
  - Last Year Question Paper For Ouat and Bestseller Lists
5. Accessing Last Year Question Paper For Ouat Free and Paid eBooks
  - Last Year Question Paper For Ouat Public Domain eBooks
  - Last Year Question Paper For Ouat eBook Subscription Services
  - Last Year Question Paper For Ouat Budget-Friendly Options

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