

**First/Second Semester B.E. Degree Examination, June/July 2013**  
**Engineering Physics**

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions, choosing at least two from each part.

2. Answer all objective type questions only on OMR sheet page 5 of the answer booklet.

3. Answer to objective type questions on sheets other than OMR will not be valued.

4. Physical Constants : Planck's constant,  $h = 6.63 \times 10^{-34}$  Js, Electron charge,  $e = 1.6 \times 10^{-19}$  C  
Electron mass,  $m = 9.11 \times 10^{-31}$  kg, Velocity of light,  $C = 3 \times 10^8$  mS<sup>-1</sup>**PART - A**

- 1 a. Choose the correct answers for the following : (04 Marks)
- If red and blue stars emits radiations of continuous wavelengths, then according to Wien's displacement law.  
 A) Blue star is hotter than red star                      B) Red star is hotter than blue star  
 C) Both stars are at same temperature                  D) Difficult to conclude.
  - The expression for de-Broglie wavelength for an electron under an accelerating potential V is,  
 A)  $\frac{12.26}{\sqrt{V}}$  m                      B)  $\frac{12.26}{\sqrt{V}}$  Å                      C)  $\frac{12.26}{\sqrt{V}}$  nm                      D)  $\frac{12.26}{\sqrt{V}}$  µm
  - A particle moves with velocity  $3 \times 10^8$  ms<sup>-1</sup>. The wavelength associated with it is 1 nm. Then group velocity of the particle is,  
 A)  $3 \times 10^8$  mS<sup>-1</sup>                      B)  $3 \times 10^{10}$  mS<sup>-1</sup>                      C)  $3 \times 10^6$  mS<sup>-1</sup>                      D)  $1.5 \times 10^6$  mS<sup>-1</sup>
  - According to the Compton effect, the wavelength of X-rays scattered at an angle greater than zero,  
 A) Decreases                      B) Doesn't change                      C) Increases                      D) None of these
- b. Derive an expression for group velocity on the basis of superposition of waves. Also obtain the relation between group velocity and phase velocity. (08 Marks)
- c. Show that Planck's law reduces to Wien's law and Rayleigh-Jeans law under certain conditions. (05 Marks)
- d. Calculate the de-Broglie wavelength associated with an electron of energy 1.5 eV. (03 Marks)
- 2 a. Choose the correct answers for the following : (04 Marks)
- The energy of the lowest state in one dimensional potential box of length  $a = 1$  unit is,  
 A)  $\frac{h^2}{8m}$                       B) zero                      C)  $\frac{h^2}{4ma^2}$                       D)  $\frac{h^2}{2ma^2}$
  - For a particle which is not bound to any system and is free, the energy eigen value is,  
 A) zero                      B) finite but not quantized  
 C) infinity                      D) finite but quantized
  - If the uncertainty in the position of a particle is equal to its de-Broglie wavelength then uncertainty in its momentum will be,  
 A)  $\Delta P \geq \frac{h}{4\pi}$                       B)  $\Delta P \geq \frac{h}{2\pi}$                       C)  $\Delta P \geq \frac{P}{4\pi}$                       D)  $\Delta P \geq \frac{h}{P}$
  - For an electron to be present inside the nucleus of an atom the uncertainty in the position of the electron must be,  
 A) more than or equal to the radius of the nucleus  
 B) more than or equal to the diameter of the nucleus.  
 C) more than the diameter of the nucleus  
 D) less than or equal to the diameter of the nucleus.



# Physics 97june 2013 Paper 22

**Didier Musso**



**Physics 97june 2013 Paper 22:**

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### **Table of Contents Physics 97june 2013 Paper 22**

1. Understanding the eBook Physics 97june 2013 Paper 22
  - The Rise of Digital Reading Physics 97june 2013 Paper 22
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics 97june 2013 Paper 22
  - 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 97june 2013 Paper 22
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 97june 2013 Paper 22
  - Personalized Recommendations
  - Physics 97june 2013 Paper 22 User Reviews and Ratings
  - Physics 97june 2013 Paper 22 and Bestseller Lists

5. Accessing Physics 97june 2013 Paper 22 Free and Paid eBooks
  - Physics 97june 2013 Paper 22 Public Domain eBooks
  - Physics 97june 2013 Paper 22 eBook Subscription Services
  - Physics 97june 2013 Paper 22 Budget-Friendly Options
6. Navigating Physics 97june 2013 Paper 22 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics 97june 2013 Paper 22 Compatibility with Devices
  - Physics 97june 2013 Paper 22 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics 97june 2013 Paper 22
  - Highlighting and Note-Taking Physics 97june 2013 Paper 22
  - Interactive Elements Physics 97june 2013 Paper 22
8. Staying Engaged with Physics 97june 2013 Paper 22
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physics 97june 2013 Paper 22
9. Balancing eBooks and Physical Books Physics 97june 2013 Paper 22
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physics 97june 2013 Paper 22
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physics 97june 2013 Paper 22
  - Setting Reading Goals Physics 97june 2013 Paper 22
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics 97june 2013 Paper 22
  - Fact-Checking eBook Content of Physics 97june 2013 Paper 22
  - 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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