

**B.Sc. Semester VI (Honours) Examination, 2021 (CBCS)**

**Subject: Physics**

**Paper: CC-XIII**

**Time: 2 Hours**

**Full Marks: 40**

*The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.*

Answer any eight of the following questions (all questions carry equal marks) 5×8=40

1. a) Discuss the non-uniqueness of electromagnetic potentials ( $\vec{A}$  and  $\phi$ ).  
b) Write down equations corresponding to the following statements
  - i) Magnetic monopole does not exist.
  - ii) Electric monopole exists.
  - iii) Total electric charge is conserved.
2. a) Show that the electromagnetic potentials in uniform electric and magnetic field may be expressed as  $\phi = -\vec{E} \cdot \vec{r}$  and  $\vec{A} = \frac{1}{2}(\vec{B} \times \vec{r})$  (with usual meanings of the symbols)  
b) If x and y components of electric field vector of an electromagnetic wave be  $E_x = a_1 \sin \alpha x$  and  $E_y = a_2 \sin(\alpha x + \delta)$ , with usual meanings of the symbols.

Show that for  $\delta = (m + \frac{1}{2})\pi$  where  $m=1,2,3, \dots$ , you get elliptic polarization.

3. a) Show that, for an electromagnetic wave propagating in a conducting medium, the electric and magnetic fields are not in phase and that the energy is not shared equally between the electric and magnetic field.  
b) An electric field in free space is of the form  $\vec{E}(\vec{r}, t) = E_0 \hat{x} \sin^3(z - ct)$ . Can it be an electromagnetic wave?
4. Deduce an expression for the refractive index of a dilute ionized gaseous medium. Hence show that (i) electromagnetic wave of frequency less than plasma frequency cannot propagate through the medium and (ii) plasma frequency  $f_p = 8.98n_e^{\frac{1}{2}}$ , c/s, where  $n_e$  is electron number density. [ $e = 1.6 \times 10^{-19} C$ ,  $m = 9 \times 10^{-31} kg$ ,  $\epsilon_0 = 8.85 \times 10^{-12} SI$ ]

# Burdwan University Bba H Part 1 Question Paper

**RM Cervero**



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### **Table of Contents Burdwan University Bba H Part 1 Question Paper**

1. Understanding the eBook Burdwan University Bba H Part 1 Question Paper
  - The Rise of Digital Reading Burdwan University Bba H Part 1 Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Burdwan University Bba H Part 1 Question Paper
  - 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 Burdwan University Bba H Part 1 Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Burdwan University Bba H Part 1 Question Paper
  - Personalized Recommendations

- Burdwan University Bba H Part 1 Question Paper User Reviews and Ratings
- Burdwan University Bba H Part 1 Question Paper and Bestseller Lists
- 5. Accessing Burdwan University Bba H Part 1 Question Paper Free and Paid eBooks
  - Burdwan University Bba H Part 1 Question Paper Public Domain eBooks
  - Burdwan University Bba H Part 1 Question Paper eBook Subscription Services
  - Burdwan University Bba H Part 1 Question Paper Budget-Friendly Options
- 6. Navigating Burdwan University Bba H Part 1 Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Burdwan University Bba H Part 1 Question Paper Compatibility with Devices
  - Burdwan University Bba H Part 1 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Burdwan University Bba H Part 1 Question Paper
  - Highlighting and Note-Taking Burdwan University Bba H Part 1 Question Paper
  - Interactive Elements Burdwan University Bba H Part 1 Question Paper
- 8. Staying Engaged with Burdwan University Bba H Part 1 Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Burdwan University Bba H Part 1 Question Paper
- 9. Balancing eBooks and Physical Books Burdwan University Bba H Part 1 Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Burdwan University Bba H Part 1 Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Burdwan University Bba H Part 1 Question Paper
  - Setting Reading Goals Burdwan University Bba H Part 1 Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Burdwan University Bba H Part 1 Question Paper
  - Fact-Checking eBook Content of Burdwan University Bba H Part 1 Question Paper

- 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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