

Class XII
Physics

Time: 3 hours

Maximum Marks: 70

General Instructions:

- All questions are compulsory. There are 26 questions in all.
- This question paper has five sections: Section A, Section B, Section C, Section D and Section E.
- Section A contains five questions of one mark each, section B contains five questions of two marks each, section C contains twelve questions of three marks each, section D contains one value based question of four marks and section E contains three questions of five marks each.
- There is no overall choice. However, an internal choice has been provided in one question of two marks, one question of three marks and all the three questions of five marks weightage. You have to attempt only one of the choices in such questions.
- You may use the following values of physical constants wherever necessary:

$$c = 3 \times 10^8 \text{ m/s}$$

$$h = 6.63 \times 10^{-34} \text{ Js}$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

$$\mu_0 = 4 \pi \times 10^{-7} \text{ T mA}^{-1}$$

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$$

$$\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}$$

$$m_e = 9.1 \times 10^{-31} \text{ kg}$$

$$\text{Mass of neutron} = 1.675 \times 10^{-27} \text{ kg}$$

$$\text{Mass of proton} = 1.673 \times 10^{-27} \text{ kg}$$

$$\text{Avogadro's number} = 6.023 \times 10^{23} \text{ per gram mole}$$

$$\text{Boltzmann constant} = 1.38 \times 10^{-23} \text{ J K}^{-1}$$

SECTION - A

Q. 1 Define the term 'mobility' of charge carriers. Write its S.I. unit [1]

Q. 2 In a series LCR circuit, $V_L = V_C = V_R$. What is the value of power factor? [1]

Q. 3 The focal length of an equiconvex lens is equal to the radius of curvature of either face. What is the refractive index of the material of the lens? [1]

Q. 4 Write a relation for polarisation P of a dielectric material in the presence of an external electric field \vec{E} . [1]

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Yicheng Fang

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Table of Contents 2014 Exemplars Physics Paper 2

1. Understanding the eBook 2014 Exemplars Physics Paper 2
 - The Rise of Digital Reading 2014 Exemplars Physics Paper 2
 - Advantages of eBooks Over Traditional Books
2. Identifying 2014 Exemplars Physics Paper 2
 - 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 2014 Exemplars Physics Paper 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2014 Exemplars Physics Paper 2
 - Personalized Recommendations
 - 2014 Exemplars Physics Paper 2 User Reviews and Ratings
 - 2014 Exemplars Physics Paper 2 and Bestseller Lists

5. Accessing 2014 Exemplars Physics Paper 2 Free and Paid eBooks
 - 2014 Exemplars Physics Paper 2 Public Domain eBooks
 - 2014 Exemplars Physics Paper 2 eBook Subscription Services
 - 2014 Exemplars Physics Paper 2 Budget-Friendly Options
6. Navigating 2014 Exemplars Physics Paper 2 eBook Formats
 - ePUB, PDF, MOBI, and More
 - 2014 Exemplars Physics Paper 2 Compatibility with Devices
 - 2014 Exemplars Physics Paper 2 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2014 Exemplars Physics Paper 2
 - Highlighting and Note-Taking 2014 Exemplars Physics Paper 2
 - Interactive Elements 2014 Exemplars Physics Paper 2
8. Staying Engaged with 2014 Exemplars Physics Paper 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2014 Exemplars Physics Paper 2
9. Balancing eBooks and Physical Books 2014 Exemplars Physics Paper 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2014 Exemplars Physics Paper 2
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2014 Exemplars Physics Paper 2
 - Setting Reading Goals 2014 Exemplars Physics Paper 2
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2014 Exemplars Physics Paper 2
 - Fact-Checking eBook Content of 2014 Exemplars Physics Paper 2
 - 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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