

CBSE Class 12 Physics Sample Paper Set 1

Class XII Physics

Time: 3 hours

Maximum Marks: 70

General Instructions:

- (i) All questions are compulsory. There are 26 questions in all.
- (ii) This question paper has **five** sections: Section A, Section B, Section C, Section D and Section E.
- (iii) 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.
- (iv) 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.
- (v) 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, $V_L = V_C \neq V_R$. 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 \vec{P} of a dielectric material in the presence of an external electric field \vec{E} . [1]

Sample Question Papers For Class 12 Cbse Physics 201

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Table of Contents Sample Question Papers For Class 12 Cbse Physics 201

1. Understanding the eBook Sample Question Papers For Class 12 Cbse Physics 201
 - The Rise of Digital Reading Sample Question Papers For Class 12 Cbse Physics 201
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Question Papers For Class 12 Cbse Physics 201
 - 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 Sample Question Papers For Class 12 Cbse Physics 201
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Question Papers For Class 12 Cbse Physics 201
 - Personalized Recommendations
 - Sample Question Papers For Class 12 Cbse Physics 201 User Reviews and Ratings
 - Sample Question Papers For Class 12 Cbse Physics 201 and Bestseller Lists
5. Accessing Sample Question Papers For Class 12 Cbse Physics 201 Free and Paid eBooks
 - Sample Question Papers For Class 12 Cbse Physics 201 Public Domain eBooks
 - Sample Question Papers For Class 12 Cbse Physics 201 eBook Subscription Services
 - Sample Question Papers For Class 12 Cbse Physics 201 Budget-Friendly Options
6. Navigating Sample Question Papers For Class 12 Cbse Physics 201 eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Question Papers For Class 12 Cbse Physics 201 Compatibility with Devices
 - Sample Question Papers For Class 12 Cbse Physics 201 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Question Papers For Class 12 Cbse Physics 201
 - Highlighting and Note-Taking Sample Question Papers For Class 12 Cbse Physics 201
 - Interactive Elements Sample Question Papers For Class 12 Cbse Physics 201
8. Staying Engaged with Sample Question Papers For Class 12 Cbse Physics 201

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Sample Question Papers For Class 12 Cbse Physics 201
- 9. Balancing eBooks and Physical Books Sample Question Papers For Class 12 Cbse Physics 201
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Question Papers For Class 12 Cbse Physics 201
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Question Papers For Class 12 Cbse Physics 201
 - Setting Reading Goals Sample Question Papers For Class 12 Cbse Physics 201
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Question Papers For Class 12 Cbse Physics 201
 - Fact-Checking eBook Content of Sample Question Papers For Class 12 Cbse Physics 201
 - 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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