

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]

Grade Caps Physics Paper 23

N Colangelo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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1. Understanding the eBook Grade Caps Physics Paper 23
 - The Rise of Digital Reading Grade Caps Physics Paper 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Caps Physics Paper 23
 - 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 Grade Caps Physics Paper 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Caps Physics Paper 23
 - Personalized Recommendations
 - Grade Caps Physics Paper 23 User Reviews and Ratings
 - Grade Caps Physics Paper 23 and Bestseller Lists

-
5. Accessing Grade Caps Physics Paper 23 Free and Paid eBooks
 - Grade Caps Physics Paper 23 Public Domain eBooks
 - Grade Caps Physics Paper 23 eBook Subscription Services
 - Grade Caps Physics Paper 23 Budget-Friendly Options
 6. Navigating Grade Caps Physics Paper 23 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade Caps Physics Paper 23 Compatibility with Devices
 - Grade Caps Physics Paper 23 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade Caps Physics Paper 23
 - Highlighting and Note-Taking Grade Caps Physics Paper 23
 - Interactive Elements Grade Caps Physics Paper 23
 8. Staying Engaged with Grade Caps Physics Paper 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade Caps Physics Paper 23
 9. Balancing eBooks and Physical Books Grade Caps Physics Paper 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade Caps Physics Paper 23
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Grade Caps Physics Paper 23
 - Setting Reading Goals Grade Caps Physics Paper 23
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Grade Caps Physics Paper 23
 - Fact-Checking eBook Content of Grade Caps Physics Paper 23
 - 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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