

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:

$$\begin{aligned}
 c &= 3 \times 10^8 \text{ m/s} \\
 h &= 6.63 \times 10^{-34} \text{ Js} \\
 e &= 1.6 \times 10^{-19} \text{ C} \\
 \mu_0 &= 4\pi \times 10^{-7} \text{ T mA}^{-1} \\
 \epsilon_0 &= 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2} \\
 \frac{1}{4\pi\epsilon_0} &= 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2} \\
 m_e &= 9.1 \times 10^{-31} \text{ kg} \\
 \text{Mass of neutron} &= 1.675 \times 10^{-27} \text{ kg} \\
 \text{Mass of proton} &= 1.673 \times 10^{-27} \text{ kg} \\
 \text{Avogadro's number} &= 6.023 \times 10^{23} \text{ per gram mole} \\
 \text{Boltzmann constant} &= 1.38 \times 10^{-23} \text{ J K}^{-1}
 \end{aligned}$$

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]

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F Rizvi



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Table of Contents Grade 12 Physics Paper 2 Mindset In

1. Understanding the eBook Grade 12 Physics Paper 2 Mindset In
 - The Rise of Digital Reading Grade 12 Physics Paper 2 Mindset In
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Physics Paper 2 Mindset In
 - 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 12 Physics Paper 2 Mindset In
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Physics Paper 2 Mindset In
 - Personalized Recommendations
 - Grade 12 Physics Paper 2 Mindset In User Reviews and Ratings
 - Grade 12 Physics Paper 2 Mindset In and Bestseller Lists
5. Accessing Grade 12 Physics Paper 2 Mindset In Free and Paid eBooks
 - Grade 12 Physics Paper 2 Mindset In Public Domain eBooks
 - Grade 12 Physics Paper 2 Mindset In eBook Subscription Services
 - Grade 12 Physics Paper 2 Mindset In Budget-Friendly Options

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