

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:

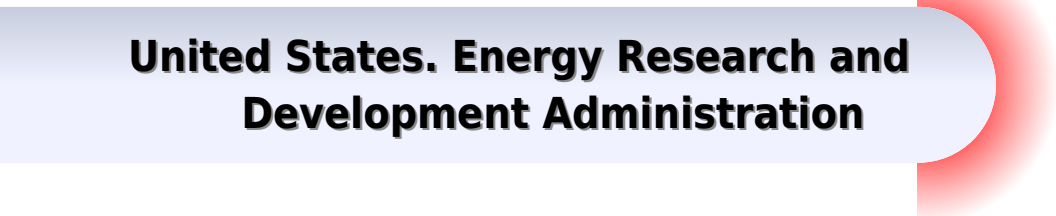
$$\begin{aligned}
 c &= 3 \times 10^8 \text{ m/s} \\
 h &= 6.63 \times 10^{-34} \text{ Js} \\
 e &= 1.6 \times 10^{-19} \text{ C} \\
 \mu_0 &= 4\pi \times 10^{-7} \text{ T mA}^{-1} \\
 \epsilon_0 &= 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2} \\
 \frac{1}{4\pi\epsilon_0} &= 9 \times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

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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**United States. Energy Research and
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Grade 1 June Physics Paper 1:

Parliamentary Papers Great Britain. Parliament. House of Commons, 1910 Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly New South Wales. Parliament, 1907 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931 **Scientific Inquiry and Nature of Science** Lawrence Flick, N.G. Lederman, 2007-11-03 This book synthesizes current literature and research on scientific inquiry and the nature of science in K 12 instruction Its presentation of the distinctions and overlaps of inquiry and nature of science as instructional outcomes are unique in contemporary literature Researchers and teachers will find the text interesting as it carefully explores the subtleties and challenges of designing curriculum and instruction for integrating inquiry and nature of science **Government Publications and the Government World** Mary C. Greathouse, 1916

Sessional Papers Great Britain. Parliament. House of Commons, 1905 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1976-05 The American Educational Catalogue, 1922 *The Official Record of the United States Department of Agriculture* United States. Department of Agriculture, 1926 **Who's who in America**, 1926 The American Educational Catalog, 1922

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Table of Contents Grade 1june Physics Paper 1

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

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