

# 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]

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Disha Experts, 2022-08-02 The thoroughly Updated 8th Edition of the book CBSE Class 12 Physics Chapter wise Question Bank NCERT Exemplar PAST 15 Years Solved Papers provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students NCERT Solutions Exemplar Solutions Solved Papers Past 13 Years for CBSE Class 12 The book is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter exercises Section 2 Past Year Questions of Past 13 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems The Book will prove to be a One Stop Question Bank for CBSE Exams [Super 10 CBSE Class 12 Mathematics 2023 Exam Sample Papers with 2021-22 Previous Year Solved Papers, CBSE Sample Paper & 2020 Topper Answer Sheet | 10 Blueprints for 10 Papers | Solutions with marking scheme](#) | Disha Experts, 2022-10-07 Super 10 CBSE Board Class 12 Mathematics 2023 Exam Sample Papers contains 10 Sample Papers designed on the Latest pattern issued by CBSE in Sep 2022 as per the Full Year syllabus prescribed by CBSE Board Each of the Sample Papers is designed on the Latest Question Paper Design 2022 23 The book also provides the CBSE Sample Paper 2022 23 with Solutions The book also provides 2021 22 Term I II Solved papers Another useful inclusion is the Topper Answer Sheet of CBSE 2020 as provided by CBSE The book also provides the complete Latest Syllabus of 2021 2022 Detailed Explanations to all the Questions with Marking Scheme has been provided

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resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world      **Elements of Language, Grade 9** Odell, 2003

**Resources in Education**, 1997      **Heinrich Rudolf Hertz (1857-1894)** Joseph E. Mulligan, 2019-03-07 Published in 1994 This book is to commemorate the one hundredth anniversary of Heinrich Hertz's death at the terribly young age of thirty six The introductory biography together with eleven papers by Hertz and seven about him are intended to highlight the importance of Hertz's contributions to physics and at the same time to serve the needs of anyone interested in doing research on this highly gifted scientist      *Papers for the Conference on the Teaching of Modern Physics*, 1986      **British Books in Print**, 1968      **Tasks in Primary Mathematics Teacher Education** Barbara Clarke, Barbro Grevholm, Richard Millman, 2008-11-17 Tasks in Primary Mathematics Teacher Education is intended to advance relevant research and innovative international practices in the preparation and professional development of mathematics teachers Emerging from discussion at the ICMI study on teacher professional development this volume focused on primary and elementary teachers culls a richness that can only be found by gathering wisdom from varied experiences around the world The choice of tasks and the associated pedagogies is a key aspect of teaching and learning mathematics Arguing that what students learn is largely defined by the tasks they are given several major themes are presented One such major strand the form function and focus of tasks is discussed throughout several chapters offering analysis discussion of implementation and exemplars of a broader category of illustrative techniques for developing critical understanding      **Transdisciplinary Teaching and Technological Integration for Improved Learning: Case Studies and Practical Approaches** Kumar, Rajendra, Ong, Eng Tek, Anggoro, Subuh, Toh, Tin Lam, Fukui, Masanori, 2024-08-14 In the modern era of research the significance of transdisciplinary and multidisciplinary approaches in enhancing higher education learning outcomes cannot be overlooked These approaches break down traditional academic silos fostering a more holistic and interconnected understanding of complex problems By integrating diverse perspectives and methodologies they promote critical thinking creativity and innovation among students Educators and institutions must embrace and implement transdisciplinary teaching and technological integration to prepare students for the demands of the future and drive meaningful advancements in education Transdisciplinary Teaching and Technological Integration for Improved Learning Case Studies and Practical Approaches embodies a commitment to these approaches incorporating three cyclical activities research participation and action that collaboratively seek answers to practical questions through features of participatory and situational research The book explores problem identification action planning observation collection and behavioral data analysis Covering topics such as artificial intelligence tools higher education institutions and university student satisfaction this book is an excellent resource for higher education faculty academic administrators curriculum developers educational technology specialists researchers and more      Transformational Literacy Ron Berger, Libby Woodfin, Suzanne Nathan Plaut, Cheryl Becker

Dobbertin,2014-08-20 Engage challenge and inspire students with work that matters Transformational Literacy written by a team from EL Education helps teachers leverage the Common Core instructional shifts building knowledge through content rich nonfiction reading for and writing with evidence and regular practice with complex text to engage students in work that matters Worthy texts and worthy tasks help students see the connection between their hard work as readers and writers and their capacity to contribute to stronger communities and a better world The stories examples and resources that permeate Transformational Literacy come primarily from the more than 150 EL Education schools around the country that support teachers to select supplement customize and create curriculum and improve instruction The book also draws on EL Education s open source Common Core English Language Arts curriculum often cited as one of the finest in the country and professional development offered to thousands of teachers to implement that curriculum effectively Transformational Literacy combines the best of what EL Education knows works for kids purposeful inquiry based learning and the new imperative of the Common Core higher and deeper expectations for all students Teach standards through a compelling and purposeful curriculum that prioritizes worthy texts and worthy task Improve students evidence based reading thinking talking and writing Support students to develop a new mindset toward the challenge of reading complex texts Transformational Literacy introduces an approach to literacy instruction that will engage challenge and inspire student with work that matters      Report CA Dept of Education,1888      *The Journal of the Senate During the ... Session of the Legislature of the State of California* California. Legislature. Senate,1889      **Journal of social science** ,1874

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