

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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Claudio Fazio, Paul Logman



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science Everyone is interested academics politicians parents high school girls and boys women in search of college majors administrators working to accommodate women s educational interests the list goes on But one thing often missing is an evidence based examination of the problem uninfluenced by personal opinions accounts of lived experiences anecdotes and the always encroaching inputs of popular culture This is why this special issue of *Frontiers in Psychology* can make a difference In it a diverse group of authors and researchers with even more diverse viewpoints find themselves united by their empirical objective approaches to understanding women s underrepresentation in science today The questions considered within this special issue span academic disciplines methods levels of analysis and nature of analysis what these article share is their scholarly evidence based approach to understanding a key issue of our time [Specifications Grading 2.0](#) Linda B. Nilson, Joseph A. Packowski, 2025-09-15 This second edition of the alternative grading classic revisits specs grading with a robust body of research exemplars and strategies to elevate the quality of student work increase engagement and buy in reduce faculty stress and cultivate students career competencies Nilson and Packowski present the unique characteristics of the specs grading schema all of which simplify faculty decision making reduce antagonism between the evaluator and the evaluated and increase student receptivity to meaningful feedback thus facilitating a mutually beneficial rigorous learning process Used consistently over time specs grading can restore credibility to grades by demonstrating and making transparent to all stakeholders the learning outcomes that students achieve This book features five new chapters stemming from firsthand accounts of dozens of instructors actively using specs grading and new material in six of the remaining eight chapters It lays out the surprisingly simple transition process positioning specs grading as the most viable and easy to use system available to faculty *Physics Education Today* Claudio Fazio, Paul Logman, 2024-02-12 This book provides an in depth exploration of the latest developments in physics education It presents a comprehensive look into cutting edge research and ideas used to improve physics education around the world Topics covered include but are not limited to the use of problem based learning the design and evaluation of teaching materials and the use of digital technologies This book is essential for anyone looking to stay up to date on the latest educational innovations and to develop an understanding of effective teaching approaches It is aimed at researchers teachers students policymakers and educational leaders in the field of physics education *American Journal of Physics* ,2001 **Handbook of Epistemic Cognition** Jeffrey A. Greene, William A. Sandoval, Ivar Bråten, 2016-01-22 The Handbook of Epistemic Cognition brings together leading work from across disciplines to provide a comprehensive overview of an increasingly important topic how people acquire understand justify change and use knowledge in formal and informal contexts Research into inquiry understanding and discovery within academic disciplines has progressed from general models of conceptual change to a focus upon the learning trajectories that lead to expert like conceptualizations skills and performance Outside of academic domains issues of who and what to believe and how to integrate multiple sources of information into coherent and useful knowledge have arisen as primary challenges

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