

# 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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**M Mark**



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and unparalleled achievement      **The Shifting Global World of Youth and Education** Mabel Ann Brown, 2017-08-15 The Shifting Global World of Youth and Education explores how increasing migration and population changes are having an unprecedented impact on global education Given that the number of children of migrant background is growing internationally there is a need for increasing awareness of the educational attainment and cultural integration of this population group This book presents international perspectives on migration and youth and analyses what kinds of effects such demographic changes are having on educational systems around the world The chapters in this volume provide a fascinating insight into how countries around the world are dealing with loss or growth in their young population as well as changes to their education systems Written by specialist academics from the relevant country the book covers Cuba Lithuania the United Kingdom the United States Finland Greece Germany Austria Hungary Latvia China Australia India Italy and Poland Taking into consideration the countries social and political context the chapters discuss educational issues surrounding curriculum assessment and the opportunities available for the support of young people Conclusions are drawn about what could be done in the future for the benefit of both the migrant and the existing populations The Shifting Global World of Youth and Education will be of great interest to academics researchers and postgraduate students in the disciplines of education sociology political sciences and social work The book will also give secondary teachers teaching assistants social workers and youth workers the opportunity to reflect on their role within a national and international context

**International Conference on Management and Engineering(CME 2014)** Alex Kong, 2014-06-02 The aim objective of CME 2014 is to provide a platform for researchers engineers academicians as well as industrial professionals from all over the world to present their research results and development activities in Information Management Innovation Management Project Management and Engineering This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face to establish business or research relations and to find global partners for future collaboration Submitted conference papers will be reviewed by technical committees of the Conference      The administration of examinations for 15-19 year olds in England Great Britain: Parliament: House of Commons: Education Committee, 2012-07-03 This report from the Education Committee looks at the administration of examinations for 15 19 year olds in England The Committee expresses serious concerns about incentives in the exam system and about competition on syllabus content Incentives in the system should be changed so the downward pressure through the competition of exam boards is mitigated The Committee considers a number of options to change incentives including i A single board This offers a simpler system with no risk of competition but the Committee believes the cost risk and disruption outweigh the benefits ii Franchising of subjects to exam boards This removes syllabus competition but again has downsides 3 Or the current system of multiple boards The Committee sees no benefit in competition on syllabus content but the setting and marking of exams and associated administration if properly regulated could generate incentives and drive quality up offering value for money

to schools and colleges The Committee also recommends the development of national syllabuses accredited by Ofqual The syllabuses would be developed by exam boards in conjunction with learned bodies and employer organisations and could therefore retain the benefits of competition on quality and the incentive for exam boards to innovate

**The Educational Times, and Journal of the College of Preceptors** ,1892      *Education Outlook* ,1892      *World Congress on Medical Physics and Biomedical Engineering 2018* Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott, 2018-05-29 This book vol 1 presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics a triennially organized joint meeting of medical physicists biomedical engineers and adjoining health care professionals Besides the purely scientific and technological topics the 2018 Congress will also focus on other aspects of professional involvement in health care such as education and training accreditation and certification health technology assessment and patient safety The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field div Chapter Evaluation of the Impact of an International Master of Advanced Studies in Medical Physics is available open access under a Creative Commons Attribution 3 0 IGO Licence via link [springer.com](https://www.springer.com)

**Intelligent Tutoring Systems** Stefan Trausan-Matu, Kristy Boyer, Martha Crosby, Kitty Panourgia, 2014-05-24 This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Tutoring Systems ITS 2014 held in Honolulu HI USA in June 2014 The 31 revised full papers 45 short papers and 27 posters presented were carefully viewed and selected from 177 submissions The specific theme of the ITS 2014 conference is Creating fertile soil for learning interactions Besides that the highly interdisciplinary ITS conferences bring together researchers in computer science learning sciences cognitive and educational psychology sociology cognitive science artificial intelligence machine learning and linguistics The papers are organized in topical sections on affect multimodality and metacognition collaborative learning data mining and student behavior dialogue and discourse generating hints scaffolds and questions game based learning and simulation graphical representations and learning student strategies and problem solving scaling ITS and assessment

*Clickers in the Classroom* David S. Goldstein, Peter D. Wallis, 2023-07-03 With classroom response systems or CRSs also known as Student Response Systems Individual Response Systems or informally clickers in use in higher education for some 20 years there is now both ample research and a wealth of examples and ideas to draw on for faculty who are contemplating their use or exploring new ways to integrate them in their teaching The research demonstrates that integrated purposefully in courses the use of clickers aligns with what neuroscience tells us about the formation of memory and the development of learning In addition they elicit contributions from otherwise reticent students and enhance collaboration even in large lecture courses foster more honest responses to discussion prompts increase students engagement and satisfaction with the classroom environment and provide an instantaneous method of formative

assessment This book presents a brief history of the development of CRSs and a survey of empirical research to provide a context for current best practices and then presents seven chapters providing authentic effective examples of the use of clickers across a wide range of academic disciplines demonstrating how they can be effective in helping students to recognize their misconceptions and grasp fundamental concepts Like all pedagogical interventions classroom response systems are no panacea and the experienced contributors candidly describe avoidable pitfalls while demonstrating how clickers can deepen student learning and how by providing instantaneous feedback they enable teachers to make adjustments on the fly to better address student understandings or misunderstandings The final chapter explores pros and cons of response systems that use mobile devices and smart phones and the book concludes with an annotated list of further resources such as books articles and videos **Educational Times** ,1892 *Shaping the Bar* Joan Howarth,2022-12-13 The comprehensive source on attorney licensing and how to reform it In *Shaping the Bar* Joan Howarth describes how the twin gatekeepers of the legal profession law schools and licensers are failing the public Attorney licensing should be laser focused on readiness to practice law with the minimum competence of a new attorney According to Howarth requirements today are both too difficult and too easy Amid the crisis in unmet legal services record numbers of law school graduates disproportionately people of color are failing bar exams that are not meaningful tests of competence to practice At the same time after seven years of higher education hundreds of thousands of dollars of law school debt two months of cramming legal rules and success on a bar exam a candidate can be licensed to practice law without ever having been in a law office or even seen a lawyer with a client Howarth makes the case that the licensing rituals familiar to generations of lawyers unfocused law degrees and obsolete bar exams are protecting members of the profession more than the public Beyond explaining the failures of the current system this book presents the latest research on competent lawyering and examples of better approaches This book presents the path forward by means of licensing changes to protect the public while building an inclusive diverse competent ethical profession Thoughtful and engaging *Shaping the Bar* is both an authoritative account of attorney licensing and a pragmatic handbook for overdue equitable reform of a powerful profession **Quality and Safety in Radiation Oncology** Adam P. Dicker,Eric C. Ford,Tim R. Williams,2016-08-17 *Quality and Safety in Radiation Oncology* is the first book to provide an authoritative and evidence based guide to the understanding and implementation of quality and safety procedures in radiation oncology practice Alongside the rapid growth of technology and radiotherapy treatment options for cancer in recent years quality and safety standards are not only of the utmost importance but best practices ensuring quality and safety are crucial aspect of modern radiation oncology training A detailed exploration and review of these standards is a necessary part of radiation oncologist s professional competency both in the clinical setting and at the study table while preparing for board review and MOC exams Chapter topics range from fundamental concepts of value and quality to commissioning technology and the use of metrics They include perspectives on quality and safety from the patient

third party payers as well as from the federal government Other chapters cover prospective testing of quality training and education error identification and analysis incidence reporting as well as special technology and procedures including MRI guided radiation therapy proton therapy and stereotactic body radiation therapy SBRT quality and safety procedures in resource limited environments and more State of the art quality assurance procedures and safety guidelines are the backbone of this unique and essential volume Physicians medical physicists dosimetrists radiotherapists hospital administrators and other healthcare professionals will find this resource an invaluable compendium of best practices in radiation oncology Key Features Case examples illustrate best practices and pitfalls Several dozen graphs tables and figures help quantify the discussion of quality and safety throughout the text Section II covers all aspects of quality assurance procedures for the physicist



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