

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]

2014 Physics Paper 2 Exemplar

**S. K. Chen, Altair Engineering Inc.,
California, USA, Y. H. Chang, Chihlee
Institute of Technology, Taiwan**

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10 Highly Probable SQPs with Actual Board Answer sheets **Multiple Representations in Physics Education** David F.

Treagust, Reinders Duit, Hans E. Fischer, 2017-07-24 This volume is important because despite various external representations such as analogies metaphors and visualizations being commonly used by physics teachers educators and researchers the notion of using the pedagogical functions of multiple representations to support teaching and learning is still a gap in physics education The research presented in the three sections of the book is introduced by descriptions of various psychological theories that are applied in different ways for designing physics teaching and learning in classroom settings The following chapters of the book illustrate teaching and learning with respect to applying specific physics multiple representations in different levels of the education system and in different physics topics using analogies and models different modes and in reasoning and representational competence When multiple representations are used in physics for teaching the expectation is that they should be successful To ensure this is the case the implementation of representations should consider design principles for using multiple representations Investigations regarding their effect on classroom communication as well as on the learning results in all levels of schooling and for different topics of physics are reported The book is intended for physics educators and their students at universities and for physics teachers in schools to apply multiple representations in physics in a productive way **Re-examining Pedagogical Content Knowledge in Science**

Education Amanda Berry, Patricia Friedrichsen, John Loughran, 2015-03-24 Pedagogical Content Knowledge PCK has been adapted adopted and taken up in a diversity of ways in science education since the concept was introduced in the mid 1980s Now that it is so well embedded within the language of teaching and learning research and knowledge about the construct needs to be more useable and applicable to the work of science teachers especially so in these times when standards and other measures are being used to define their knowledge skills and abilities Re examining Pedagogical Content Knowledge in Science Education is organized around three themes Re examining PCK Issues ideas and development Research developments and trajectories Emerging themes in PCK research Featuring the most up to date work from leading PCK scholars in science education across the globe this volume maps where PCK has been where it is going and how it now informs and enhances knowledge of science teachers professional knowledge It illustrates how the PCK research agenda has developed and can make a difference to teachers practice and students learning of science **Recent Trends in**

Computational Engineering - CE2014 Miriam Mehl, Manfred Bischoff, Michael Schäfer, 2015-10-12 This book presents selected papers from the 3rd International Workshop on Computational Engineering held in Stuttgart from October 6 to 10

2014 bringing together innovative contributions from related fields with computer science and mathematics as an important technical basis among others The workshop discussed the state of the art and the further evolution of numerical techniques for simulation in engineering and science We focus on current trends in numerical simulation in science and engineering new requirements arising from rapidly increasing parallelism in computer architectures and novel mathematical approaches Accordingly the chapters of the book particularly focus on parallel algorithms and performance optimization coupled systems and complex applications and optimization A Course in Morphometrics for Biologists Fred L. Bookstein, 2018-10-04 This book frames and demonstrates the best of modern morphometric methods bridging the gap between biostatistics and organismal biology Oswaal CBSE Sample Question Papers Class 12 Chemistry (For 2024 Exam) Oswaal Editorial Board, 2023-08-03 Description of the product Fresh Relevant with 2024 CBSE SQP Fully Solved Analyzed Score Boosting Insights with 500 Questions 1000 Concepts Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready to Practice with 10 Highly Probable SQPs with Actual Board Answer sheets Oswaal CBSE 10 Previous Years' Solved Papers & Sample Question Papers Class 12 (English Core, Physics, Chemistry & Biology) (Set of 5 Books) (For Board Exams 2024) Oswaal editorial board, 2023-09-26 DESCRIPTION OF THE PRODUCT 100% Updated with the Latest CBSE Board Paper 2023 Valuable Exam Insights with Out of Syllabus Questions highlighted Concept Clarity with Topper s and Board Marking Scheme Answers Crisp revision with Mind Maps and Revision Notes Fresh Relevant with 2024 CBSE SQP Fully Solved Analysed Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready to Practice with 10 Highly Probable SQPs with Actual Board Answer sheets *2014 International Conference on Artificial Intelligence and Software Engineering(AISE2014)* S. K. Chen, Altair Engineering Inc., California, USA, Y. H. Chang, Chihlee Institute of Technology, Taiwan, 2014-02-06 2014 International Conference on Artificial Intelligence and Software Engineering AISE2014 aims to provide a forum for accessing to the most up to date and authoritative knowledge from both Artificial Intelligence and Software Engineering AISE2014 features unique mixed topics of AI Algorithms Data Mining Knowledge based Systems Software Process and so on The goal of this conference is to bring researchers engineers and students to the areas of Artificial Intelligence and Software Engineering to share experiences and original research contributions on those topics Researchers and practitioners are invited to submit their contributions to AISE2014 *2025-26 RRB JE CBT-II Study Material* YCT Expert Team , 2025 26 RRB JE CBT II Study Material 352 695 E This book covers Basics of Environments Basics of Computer Physics Chemistry and General Awareness *High Performance Computing* Julian M. Kunkel, Thomas Ludwig, 2015-06-19 This book constitutes the refereed proceedings of the 30th International Conference ISC High Performance 2015 formerly known as the International Supercomputing Conference held in Frankfurt Germany in July 2015 The 27 revised full papers presented together with 10 short papers were carefully reviewed and selected from 67 submissions The papers cover the following topics cost efficient data centers scalable applications advances in algorithms

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