

# 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]

# Grade Physics Paper For 25 September 2014

**Great Britain: Parliament: House of  
Commons: Education Committee**



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Quantum Spin Glasses, Annealing and Computation Shu Tanaka, Ryo Tamura, Bikas K. Chakrabarti, 2017-05-04 Discusses the recent developments in quantum statistical physics of spin glasses and quantum computations Provided by publisher

The Soul of a University Chris Brink, 2018-07-01 What is the role of a university in society In this innovative book Chris Brink offers the timely reminder that it should have social purpose as well as achieve academic excellence The current obsession with rankings and league tables has perpetuated inequality and is preventing social mobility This book shows how universities can and should respond to societal challenges and promote positive social change **2024-25 NEET/AIPMT**

**Physics Solved Papers Bilingual** YCT Expert Team , 2024 25 NEET AIPMT Physics Solved Papers Bilingual 592 895 This book contains 48 sets solved papers and 2275 objective questions Disha 9 Previous Year-wise Solved papers IB ACIO

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Disha Experts, 2025-09-03 The updated and revised 4th edition of the book 9 Year wise Previous Year Solved Papers for IB ACIO Grade II Executive Tier I Exam with 3 Practice Sets contains Past 9 Solved Papers from 2010 to 2024 of the IB exam The past Solved papers included are 2010 2011 2012 2013 2015 2017 2021 2 sets of 2024 The detailed solutions are provided immediately after each paper 3 Practice sets with Solution are based on the latest syllabus and pattern **6**

YEAR-WISE Solved Papers - Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam

Disha Experts, 2021-02-04 **CONCUR 2014 - Concurrency Theory** Paolo Baldan, University of Roma "La Sapienza", 2014-08-23 This book constitutes the refereed proceedings of the 25th International Conference on Concurrency Theory CONCUR 2014 held in Rome Italy in September 2014 The 35 revised full papers presented together with 5 invited talks were carefully reviewed and selected from 124 submissions The focus of the conference is on the following topics process calculi model checking and abstraction synthesis quantitative models automata and multithreading complexity process calculi and types categories graphs and quantum systems automata and time and games **7 YEAR-WISE Solved Papers - Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam 2nd Edition** Disha Experts, 2022-05-11 7 YEAR WISE Intelligence Bureau Assistant Central Intelligence Officer Grade II Executive Tier I Exam contains Past 7 Solved Papers of the IB exam The past Solved papers included are 2010 2011 2012 2013 2015 2017 2021 The detailed solutions are provided immediately after each paper *Daily Graphic* Ransford Tetteh, 2014-03-12 **Transfer**

**von Studienreformprojekten für die Mathematik in der Ingenieurausbildung** Herold Dehling, Katherine Roegner, Marco Winzker, 2014-11-04 Das Themenheft enth lt insgesamt 14 Beitr ge davon sind sechs wissenschaftliche Beitr ge und acht Werkstattberichte Die Beitr ge widmen sich einem breiten Spektrum an Fragestellungen zur Mathematikausbildung in den Ingenieurwissen schaften und bilden darin die Vielfalt der Reformans tze an Universit ten und Hochschulen in Deutschland und sterreich ab Inhaltliche Schwerpunkte bei den Beitr gen in diesem Heft sind in drei

Richtungen zu erkennen einmal im Bereich der mathematischen Vorkurse sowie zur Begleitung der Studierenden im ersten Studienjahr dann beim Einsatz aktivierender Lehr Lernformen und schließlich bei der curricularen Verzahnung von mathematischer Theorie mit ingenieurwissenschaftlichen Anwendungen Dass dabei unterschiedliche Ansätze zur Lösung der anstehenden Herausforderungen gewahrt werden macht den Reiz dieses Themenhefts aus

*Energy Materials 2014 The Minerals, Metals & Materials Society (TMS),2017-03-16*

SSC Stenographer Grade C & D 15 Practice Sets & 10 Solved Papers for 2022 Exam Arihant Experts,2022-03-05 Staff Selection Commission SSC conducts Stenographer exam every year for recruitment of best talents in the field of Stenographer Grade C and D for various ministries departments organisations

1 10 Previous Years Solved Papers are given for insights of the examination pattern 2 Detailed and authentic solutions for better understanding of theories 3 15 practice sets are given for self assessment 4 5000 MCQs are provided for quick revision Be exam ready with the SSC Stenographer 15 Practice Sets that has been revised to give complete exposure of the question type and examination pattern to the aspirants The current volume serves as a workbook which provides 10 Previous Years Solved Papers 2021 2014 along with detailed and authentic solutions for enhanced understanding of the concept 15 Practice Sets have been prepared exactly on the lines of the exam The book is also engraved with 5000 objective questions for rigorous practice and quick revision All these qualities make it an absolute solution for the preparation of the SSC Stenographer 2022 exam

TOC Solved Papers 1 10 Practice Papers 1 15

**Engineering Failure Analysis** Kary Thanapalan,2020-05-06 Chapter contents include information on Stress analysis strengths and limitations of traditional theoretical approaches to FRP laminate design against failure stress corrosion cracking behavior of materials failure analysis and durability issues

*Cellular Automata* Jaroslaw Was,Georgios Sirakoulis,Stefania Bandini,2014-09-12 This book constitutes the proceedings of the 11th International Conference on Cellular Automata for Research and Industry ACRI 2014 held in Krakow Poland in September 2014 The 67 full papers and 7 short papers presented in this volume were carefully reviewed and selected from 125 submissions They are organized in topical sections named theoretical results on cellular automata cellular automata dynamics and synchronization modeling and simulation with cellular automata cellular automata based hardware and computing cryptography networks and pattern recognition with cellular automata The volume also contains contributions from ACRI 2014 workshops on crowds and cellular automata asynchronous cellular automata traffic and cellular automata and agent based simulation and cellular automata

*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

Convexity and Discrete Geometry Including Graph Theory Karim Adiprasito, Imre Bárány, Costin Vilcu, 2016-05-02 This volume presents easy to understand yet surprising properties obtained using topological geometric and graph theoretic tools in the areas covered by the Geometry Conference that took place in Mulhouse France from September 7 11 2014 in honour of Tudor Zamfirescu on the occasion of his 70th anniversary The contributions address subjects in convexity and discrete geometry in distance geometry or with geometrical flavor in combinatorics graph theory or non linear analysis Written by top experts these papers highlight the close connections between these fields as well as ties to other domains of geometry and their reciprocal influence They offer an overview on recent developments in geometry and its border with discrete mathematics and provide answers to several open questions The volume addresses a large audience in mathematics including researchers and graduate students interested in geometry and geometrical problems

*Promoting Positive Learning Experiences in Middle School Education* Gaines, Cherie Barnett, Hutson, Kristy M., 2021-01-15 Declining academic performance along with a growing apathy of students toward the value of education demonstrates that students in the United States public education system do not recognize the value of a positive experience in middle schools A plethora of research and writing has been done on elementary schools and secondary schools but middle school education as a whole has been left behind For this reason there is the need for current research on all aspects and topics that may contribute to middle school student success Promoting Positive Learning Experiences in Middle School Education focuses on the ideal conditions for maximizing student success and engagement in middle school education The chapters take a deeper look into the modern tools technologies methods and theories driving current research on middle school students their teachers their classroom environment and their learning Highlighting topics such as curriculum reform instructional strategies and practices effective teaching and technology in the modern classroom this book is ideally intended for middle school teachers middle school administrators and school district administrators along with practitioners stakeholders researchers academicians and students interested in middle school education and student success

**The English Professor** Margaret R. O'Leary/Dennis S. O'Leary, 2016-02-04 Across the span of more than forty years Raphael Dorman O Leary a professor of English rhetoric and English literature taught his students at the University of Kansas to think straight to put sinew into their sentences and to embrace the magnificent literary treasures of their mother

tongue *The English Professor* by authors Margaret R O Leary and Dennis S O Leary offers a narrative of the life work and times of a revered Midwestern university English teacher This memoir narrates how the professor born in 1866 was raised on a Kansas farm in the post bellum era Like his father before him he was committed to a life of learning and teaching His colleagues knew him for his unpretentious exterior honesty and integrity and his flashing anger at cheapness vulgarity pretense and above all charlatanism When Professor O Leary died after a short illness in 1936 his personal effects passed through two generations to his grandson Dennis S O Leary who with his wife Margaret discovered his papers while restoring a family house The trove of material served as the core resource for the compilation of *The English Professor* It provides insights into the histories of Kansas and the University of Kansas and of Harvard University as well as perspectives on higher education including the teaching of English rhetoric language literature journalism and oratory in the United States

*Equity Learning Communities* Daniel L. Reinholz, 2025-07-31 Concrete strategies for making higher education instruction more equitable via professional learning groups that use empirical classroom data to guide iterative incremental changes In *Equity Learning Communities* Daniel Reinholz recommends sustained collaborative professional development group meetings as a launchpad for higher education instructors to enhance classroom equity and inclusivity In Reinholz's approach community members make use of debrief sessions collaborative problem solving and empirical classroom data such as participation data to guide iterative incremental changes in instruction that increase empathy and trust improve instructor student relationships and build from student strengths The book offers a comprehensive look at the process of professional learning via equity learning communities Reinholz makes evident the tremendous benefits of such communities and community cultural wealth He presents in depth case studies of six instructors diverse in terms of race gender disability discipline and professional experience who made transformative changes to their mindset perspective and instruction as participants in such communities This work gives instructors a host of explicit strategies and educational moves for becoming aware of and quashing inequities as they arise It also provides a wealth of practical wisdom that faculty leaders instructional coaches and professional developers could apply to their own equity work It serves as a blueprint for readers to create and sustain their own learning communities from picking an appropriate measure to collecting data and organizing collaborative professional learning around those data

**Nuclear Science Abstracts** ,1967      **Global developments towards continuous-wave free-electron lasers** Ye Chen, Winni Decking, Yuantao Ding, Julien Branlard, Ji Qiang, Nicholas Walker, Bo Liu, Tor Raubenheimer, 2023-11-09

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