

# 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]

# Scope For 2014 September Physics Question Paper

**Alphose Zingoni**



## Scope For 2014 September Physics Question Paper:

*Graph Drawing* Christian Duncan, Antonios Symvonis, 2014-11-26 This book constitutes the proceedings of the 22nd International Symposium on Graph Drawing GD 2014 held in Würzburg Germany in September 2014. The 41 full papers presented in this volume were carefully reviewed and selected from 72 submissions. The back matter of the book also contains 2 page poster papers presented at the conference. The contributions are organized in topical sections named planar subgraphs, simultaneous embeddings, applications, contact representations,  $k$  planar graphs, crossing minimization, level drawings, theory, fixed edge directions, drawing under constraints, clustered planarity, and greedy graphs. Oswaal 36 Years'

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Intelligent Systems ICAIS 2014 held in Bournemouth UK in September 2014 The 19 full papers included in these proceedings together with the abstracts of 4 invited talks were carefully reviewed and selected from 32 submissions The contributions are organized under the following topical sections advances in feature selection clustering and classification adaptive optimization advances in time series analysis

**Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications** Alphose Zingoni, 2019-08-21 Advances in Engineering Materials Structures and Systems Innovations Mechanics and Applications comprises 411 papers that were presented at SEMC 2019 the Seventh International Conference on Structural Engineering Mechanics and Computation held in Cape Town South Africa from 2 to 4 September 2019 The subject matter reflects the broad scope of SEMC conferences and covers a wide variety of engineering materials both traditional and innovative and many types of structures The many topics featured in these Proceedings can be classified into six broad categories that deal with i the mechanics of materials and fluids elasticity plasticity flow through porous media fluid dynamics fracture fatigue damage delamination corrosion bond creep shrinkage etc ii the mechanics of structures and systems structural dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii the numerical modelling and experimental testing of materials and structures numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning The SEMC 2019 Proceedings will be of interest to civil structural mechanical marine and aerospace engineers Researchers developers practitioners and academics in these disciplines will find them useful Two versions of the papers are available Short versions intended to be concise but self contained summaries of the full papers are in this printed book The full versions of the papers are in the e book 6th European Conference of the International Federation for Medical and Biological Engineering Igor Lacković, Darko Vasic, 2014-09-02 This volume presents the Proceedings of the 6th European Conference of the International Federation for Medical and Biological Engineering MBEC2014 held in Dubrovnik September 7 11 2014 The general theme of MBEC 2014 is Towards new horizons in biomedical engineering The scientific discussions in these conference proceedings include the following themes Biomedical Signal Processing Biomedical Imaging and Image Processing Biosensors and Bioinstrumentation Bio Micro Nano Technologies Biomaterials Biomechanics Robotics and Minimally Invasive Surgery Cardiovascular Respiratory and Endocrine Systems Engineering Neural and Rehabilitation Engineering Molecular Cellular and Tissue

Engineering Bioinformatics and Computational Biology Clinical Engineering and Health Technology Assessment Health Informatics E Health and Telemedicine Biomedical Engineering Education

**What levels of explanation in the behavioural sciences?** Giuseppe Boccignone, Roberto Cordeschi, 2015-07-03 Complex systems are to be seen as typically having multiple levels of organization For instance in the behavioural and cognitive sciences there has been a long lasting trend promoted by the seminal work of David Marr putting focus on three distinct levels of analysis the computational level accounting for the What and Why issues the algorithmic and the implementational levels specifying the How problem However the tremendous developments in neuroscience knowledge about processes at different scales of organization together with the complexity of today cognitive theories suggest that there will hardly be only three levels of explanation Instead there will be many different degrees of commitments corresponding to the different granularities from high level behavioural models to low level neural and molecular models of the cognitive research program For instance Bayesian approaches that are usually advocated for formalizing Marr's computational level and rational behaviour have even been adopted to model synaptic plasticity and axon guidance by molecular gradients As a result we can consider the behavioural scientist as dealing with models at a multiplicity of levels The purpose of this Research Topic in Frontiers in Theoretical and Philosophical Psychology is to promote an approach to the role of the levels and explanation and models which is of interest for cognitive scientists neuroscientists psychologists behavioural scientists and philosophers of science

**Nuclear Science Abstracts**, 1971-05 Continuum Mechanics Through the Eighteenth and Nineteenth Centuries Gérard A. Maugin, 2014-04-04 Conceived as a series of more or less autonomous essays the present book critically exposes the initial developments of continuum thermo mechanics in a post Newtonian period extending from the creative works of the Bernoullis to the First World war i.e. roughly during first the Age of reason and next the Birth of the modern world The emphasis is rightly placed on the original contributions from the Continental scientists the Bernoulli family Euler d'Alembert Lagrange Cauchy Piola Duhamel Neumann Clebsch Kirchhoff Helmholtz Saint Venant Boussinesq the Cosserat brothers Caratheodory in competition with their British peers Green Kelvin Stokes Maxwell Rayleigh Love It underlines the main breakthroughs as well as the secondary ones It highlights the role of scientists who left essential prints in this history of scientific ideas The book shows how the formidable developments that blossomed in the twentieth century and perused in a previous book of the author in the same Springer Series Continuum Mechanics through the Twentieth Century Springer 2013 found rich compost in the constructive foundational achievements of the eighteenth and nineteenth centuries The pre WWI situation is well summarized by a thorough analysis of treatises Appell Hellinger published at that time English translations by the author of most critical texts in French or German are given to the benefit of the readers

**Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)** Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims

activities and events

### **Rock Mechanics for Natural Resources and Infrastructure Development - Full Papers**

Sergio A.B. Fontoura, Ricardo Rocca, José Mendoza, 2019-09-03 Rock Mechanics for Natural Resources and Infrastructure Development contains the proceedings of the 14th ISRM International Congress ISRM 2019 Foz do Iguaçu Brazil 13-19 September 2019 Starting in 1966 in Lisbon Portugal the International Society for Rock Mechanics and Rock Engineering ISRM holds its Congress every four years At this 14th occasion the Congress brings together researchers professors engineers and students around contemporary themes relevant to rock mechanics and rock engineering Rock Mechanics for Natural Resources and Infrastructure Development contains 7 Keynote Lectures and 449 papers in ten chapters covering topics ranging from fundamental research in rock mechanics laboratory and experimental field studies and petroleum mining and civil engineering applications Also included are the prestigious ISRM Award Lectures the Leopold Muller Award Lecture by professor Peter K Kaiser and the Manuel Rocha Award Lecture by Dr Quinghua Lei Rock Mechanics for Natural Resources and Infrastructure Development is a must read for academics engineers and students involved in rock mechanics and engineering Proceedings in Earth and geosciences Volume 6 The Proceedings in Earth and geosciences series contains proceedings of peer reviewed international conferences dealing in earth and geosciences The main topics covered by the series include geotechnical engineering underground construction mining rock mechanics soil mechanics and hydrogeology

*Bibliography and Index of Geology*, 1991

*River Sedimentation* Silke Wieprecht, Stefan Haun, Karolin Weber, Markus Noack, Kristina Terheiden, 2016-11-30 Sediment dynamics in fluvial systems is of great ecological economic and human health related significance worldwide Appropriate management strategies are therefore needed to limit maintenance costs as well as minimize potential hazards to the aquatic and adjacent environments Human intervention ranging from nutrient pollutant release to physical modifications has a large impact on sediment quantity and quality and thus on river morphology as well as on ecological functioning Truly understanding sediment dynamics requires as a consequence a multidisciplinary approach River Sedimentation contains the peer reviewed scientific contributions presented at the 13th International Symposium on River Sedimentation ISRS 2016 Stuttgart Germany 19-22 September 2016 and includes recent accomplishments in theoretical developments numerical modelling experimental laboratory work field investigations and monitoring as well as management methodologies

*Enterprise Information Systems* Slimane Hammoudi, Leszek Maciaszek, Ernest

Teniente, Olivier Camp, José Cordeiro, 2016-02-02 This book contains revised papers from the 17th International Conference on Enterprise Information Systems ICEIS 2015 held in Barcelona Spain in April 2015 The 31 papers presented in this volume were carefully reviewed and selected from a total of 327 submissions The book also contains one full paper invited talk The selected papers reflect state of the art research that is oriented toward real world applications and highlight the benefits of information systems and technology for industry and services They are organized in topical sections on databases and information systems integration artificial intelligence and decision support systems information systems analysis and

specification software agents and Internet computing human computer interaction and enterprise architecture

Operations Research Proceedings 2017 Natalia Kliewer, Jan Fabian Ehmke, Ralf Borndörfer, 2018-05-25 This book gathers a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2017 which was held at Freie Universität Berlin Germany on September 6-8 2017 More than 800 scientists practitioners and students from mathematics computer science business economics and related fields attended the conference and presented more than 500 papers in parallel topic streams as well as special award sessions The main theme of the conference and its proceedings was Decision Analytics for the Digital Economy



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### **Table of Contents Scope For 2014 September Physics Question Paper**

1. Understanding the eBook Scope For 2014 September Physics Question Paper
  - The Rise of Digital Reading Scope For 2014 September Physics Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Scope For 2014 September Physics Question Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Scope For 2014 September Physics Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Scope For 2014 September Physics Question Paper
  - Personalized Recommendations
  - Scope For 2014 September Physics Question Paper User Reviews and Ratings
  - Scope For 2014 September Physics Question Paper and Bestseller Lists

5. Accessing Scope For 2014 September Physics Question Paper Free and Paid eBooks
  - Scope For 2014 September Physics Question Paper Public Domain eBooks
  - Scope For 2014 September Physics Question Paper eBook Subscription Services
  - Scope For 2014 September Physics Question Paper Budget-Friendly Options
6. Navigating Scope For 2014 September Physics Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Scope For 2014 September Physics Question Paper Compatibility with Devices
  - Scope For 2014 September Physics Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Scope For 2014 September Physics Question Paper
  - Highlighting and Note-Taking Scope For 2014 September Physics Question Paper
  - Interactive Elements Scope For 2014 September Physics Question Paper
8. Staying Engaged with Scope For 2014 September Physics Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Scope For 2014 September Physics Question Paper
9. Balancing eBooks and Physical Books Scope For 2014 September Physics Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Scope For 2014 September Physics Question Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Scope For 2014 September Physics Question Paper
  - Setting Reading Goals Scope For 2014 September Physics Question Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Scope For 2014 September Physics Question Paper
  - Fact-Checking eBook Content of Scope For 2014 September Physics Question Paper
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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