

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]

Physics 97june 2012 Paper 21

Nikolaus Kriegeskorte, Diana Deca



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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 **Progress in Physics, vol. 3/2015** Dmitri Rabounski ,Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics Imaging and Imagining the Fetus Malcolm Nicolson,John E. E. Fleming,2013-02-15 How engineers and clinicians developed the ultrasound diagnostic scanner and how its use in obstetrics became controversial To its proponents the ultrasound scanner is a safe reliable and indispensable aid to diagnosis Its detractors on the other hand argue that its development and use are driven by the technological enthusiasms of doctors and engineers and the commercial interests of manufacturers and not by concern to improve the clinical care of women In some U S states an ultrasound scan is now required by legislation before a woman can obtain an abortion adding a new dimension to an already controversial practice Imaging and Imagining the Fetus engages both the development of a modern medical technology and the concerted critique of that technology Malcolm Nicolson and John Fleming relate the technical and social history of ultrasound imaging from early experiments in Glasgow in 1956 through wide deployment in the British hospital system by 1975 to its ubiquitous use in maternity clinics throughout the developed world by the end of the twentieth century Obstetrician Ian Donald and engineer Tom Brown created ultrasound technology in Glasgow where their prototypes were based on the industrial flaw detector an instrument readily available to them in the shipbuilding city As a physician Donald supported the use of ultrasound for clinical purposes and as a devout High Anglican he imbued the images with moral significance He opposed abortion decisions about which were increasingly guided by the ultrasound technology he pioneered and he occasionally used ultrasound images to convince pregnant women not to abort the fetuses they could now see Imaging and Imagining the Fetus explores why earlier innovators failed where Donald and Brown succeeded It also shows how ultrasound developed into a black box technology whose users can fully appreciate the images they produce but do not and have no need to understand the technology any more than do users of computers These images of the fetus may be produced by machines the authors write but they live vividly in the human imagination **Behind the Legend** Denis Cryle,2018-04-29 Essays on the Frontiers of Modern Astrophysics and Cosmology Santhosh Mathew,2013-11-08 This book is a collection of fourteen essays that describe an inspiring journey through the universe and discusses popular science topics that modern physics and cosmology are struggling to deal with What is our place in the universe and what happens in the magnificent cosmos where we exist for a brief amount of time In an unique way that incorporates mythological and philosophical perspectives the essays in this work address the big questions of what the universe is how it came into being and where it may be heading This exciting adventure is a rich scientific history of elegant physics mathematics and cosmology as well as a philosophical and spiritual pursuit fueled by the human imagination

Information and Communication Technologies in Tourism 2013 Lorenzo Cantoni,Zheng (Phil) Xiang,2013-11-18

The papers presented in this volume advance the state of the art in social media and Web 2.0 electronic tourism marketing web site and search engine optimization technology adoption and diffusion online communities tourism management and decision support eLearning mobile technologies and applications in tourism recommender systems e intermediaries and networks in tourism customer research in e tourism and user generated content The volume collects research papers of prominent scholars from around the world with a disciplinary background in the fields of social or computer sciences The book covers the most significant topics within the study field of electronic tourism and addresses both academics and practitioners interested in the latest advances in the electronic travel and tourism domain Continuous Emission

Monitoring James A. Jahnke,2022-04-19 CONTINUOUS EMISSION MONITORING The new edition of the only single volume reference on both the regulatory and technical aspects of U S and international continuous emission monitoring CEM systems Continuous Emission Monitoring presents clear accurate and up to date information on the technical and regulatory issues that affect the design application and certification of CEM systems installed in power plants cement plants pulp and paper mills smelters and other stationary sources Written by an international expert in the field this classic reference guide covers U S and international CEM regulatory requirements analytical techniques operation and maintenance of CEM instrumentation and more The fully revised Third Edition remains the most comprehensive source of CEM information available featuring three brand new chapters on mercury monitoring the reporting and certification of industrial greenhouse gas emissions and the instrumentation and methods used to measure air toxic compounds including dioxins furans and hydrogen chloride Thoroughly updated chapters discuss topics such as flow rate monitors new EPA regulations instrumentation and calibration techniques CEM system control and data acquisition and extractive system design Providing environmental professionals with the knowledge of CEM systems necessary to address the present day regulatory environment Continuous Emission Monitoring Discusses how CEM systems work their advantages and limitations and the regulatory requirements governing their operation Covers both the historical framework and technological basis of current CEM regulatory programs and standards in the United States Canada Europe and Asia Offers practical guidance on sampling system selection measurement techniques advanced monitoring approaches recordkeeping and quality assurance Provides detailed technical descriptions of the technology necessary for regulatory compliance Includes new orthographic drawings to help instrument technicians and regulators with little technical background to easily understand key topics Continuous Emission Monitoring Third Edition is an essential resource for professionals responsible for ensuring regulatory compliance managers and technicians who purchase operate and maintain CEM instrumentation regulatory personnel who write and enforce operating permits and instructors and students in upper level environmental engineering programs *Beyond open access: visions for open evaluation of scientific papers by post-publication peer review* Nikolaus Kriegeskorte,Diana Deca, A

scientific publication system needs to provide two basic services access and evaluation The traditional publication system restricts the access to papers by requiring payment and it restricts the evaluation of papers by relying on just 2-4 pre-publication peer reviews and by keeping the reviews secret As a result the current system suffers from a lack of quality and transparency of the peer review evaluation process and the only immediately available indication of a new paper's quality is the prestige of the journal it appeared in Open access is now widely accepted as desirable and is slowly beginning to become a reality However the second essential element evaluation has received less attention Open evaluation an ongoing post-publication process of transparent peer review and rating of papers promises to address the problems of the current system However it is unclear how exactly such a system should be designed The evaluation system steers the attention of the scientific community and thus the very course of science For better or worse the most visible papers determine the direction of each field and guide funding and public policy decisions Evaluation therefore is at the heart of the entire endeavor of science As the number of scientific publications explodes evaluation and selection will only gain importance A grand challenge of our time therefore is to design the future system by which we evaluate papers and decide which ones deserve broad attention So far scientists have left the design of the evaluation process to journals and publishing companies However the steering mechanism of science should be designed by scientists The cognitive computational and brain sciences are best prepared to take on this task which will involve social and psychological considerations software design and modeling of the network of scientific papers and their interrelationships This Research Topic in Frontiers in Computational Neuroscience collects visions for a future system of open evaluation Because critical arguments about the current system abound these papers will focus on constructive ideas and comprehensive designs for open evaluation systems Design decisions include Should the reviews and ratings be entirely transparent or should some aspects be kept secret Should other information such as paper downloads be included in the evaluation How can scientific objectivity be strengthened and political motivations weakened in the future system Should the system include signed and authenticated reviews and ratings Should the evaluation be an ongoing process such that promising papers are more deeply evaluated How can we bring science and statistics to the evaluation process e.g. should rating averages come with error bars How should the evaluative information about each paper e.g. peer ratings be combined to prioritize the literature Should different individuals and organizations be able to define their own evaluation formulae e.g. weighting ratings according to different criteria How can we efficiently transition toward the future system Ideally the future system will derive its authority from a scientific literature on community-based open evaluation We hope that these papers will provide a starting point

STEM of Desire, 2019-01-14

STEM of Desire Queer Theories and Science Education locates creates and investigates intersections of science technology engineering and mathematics STEM education and queer theorizing Manifold desires personal political cultural produce and animate STEM education Queer theories instigate and explore im possibilities for knowing and being through desires normal

and strange The provocative original manuscripts in this collection draw on queer theories and allied perspectives to trace entanglements of STEM education sex sexuality gender and desire and to advance constructive critique creative world making and com passionate advocacy Not just another call for inclusion this volume turns to what and how STEM education and diverse desiring subjects might be come in relation to each other and the world STEM of Desire is the first book length project on queering STEM education Eighteen chapters and two poems by 27 contributors consider STEM education in schools and universities museums and other informal learning environments and everyday life Subject areas include physical and life sciences engineering mathematics nursing and medicine environmental education early childhood education teacher education and education standards These queering orientations to theory research and practice will interest STEM teacher educators teachers and professors undergraduate and graduate students scholars policy makers and academic libraries Contributors are Jesse Bazzul Charlotte Boulay Francis S Broadway Erin A Cech Steve Fifield blake m r flessas Andrew Gilbert Helene G tschel Emily M Gray Kristin L Gunckel Joe E Heimlich Tommye Hutson Kathryn L Kirchgasser Michelle L Knaier Sheri Leafgren Will Letts Anna MacDermut Michael J Reiss Donna M Riley Cecilia Rod hn Scott Sander Nicholas Santavicca James Sheldon Amy E Slaton Stephen Witzig Timothy D Zimmerman and Adrian Zongrone

The Making of Modern Physics in Colonial India Somaditya Banerjee, 2020-05-14 This monograph offers a cultural history of the development of physics in India during the first half of the twentieth century focusing on Indian physicists Satyendranath Bose 1894 1974 Chandrasekhara Venkata Raman 1888 1970 and Meghnad Saha 1893 1956 The analytical category bhadralok physics is introduced to explore how it became possible for a highly successful brand of modern science to develop in a country that was still under colonial domination The term Bhadrakalok refers to the then emerging group of native intelligentsia who were identified by academic pursuits and manners Exploring the forms of life of this social group allows a better understanding of the specific character of Indian modernity that as exemplified by the work of bhadralok physicists combined modern science with indigenous knowledge in an original program of scientific research The three scientists achieved the most significant scientific successes in the new revolutionary field of quantum physics with such internationally recognized accomplishments as the Saha ionization equation 1921 the famous Bose Einstein statistics 1924 and the Raman Effect 1928 the latter discovery having led to the first ever Nobel Prize awarded to a scientist from Asia This book analyzes the responses by Indian scientists to the radical concept of the light quantum and their further development of this approach outside the purview of European authorities The outlook of bhadralok physicists is characterized here as cosmopolitan nationalism which allows us to analyze how the group pursued modern science in conjunction with and as an instrument of Indian national liberation

Sonic Wonderland Trevor Cox, 2014-01-09 As an acoustic engineer Trevor Cox has spent his career eradicating unwanted noises echoes in concert halls clamour in classrooms Until the day he heard something so astonishing that he had an epiphany rather than quashing rare or bizarre sounds we should be celebrating these sonic

treasures This is the story of his investigation into the mysteries of these Sonic Wonders of the World In the Mojave Desert he finds sand dunes that sing In France he discovers an echo that tells jokes In California he drives down a musical road that plays the William Tell Overture In Cathedrals across the world he learns how acoustics changed the history of the Church Touching on physics music archaeology neuroscience biology and design Cox explains how sound is made and altered by the environment and how our body reacts to peculiar noises from the exotic sonic wonders he encounters on his journey or the equally unique and surprising sounds of our everyday environment In a world dominated by the visual Sonic Wonderland encourages us to become better listeners and to open our ears to the glorious cacophony around us Listen to a selection of astonishing sounds here <https://soundcloud.com/sonicwonderland>

Chaos Ethics Chris Bateman, 2014-09-26 Balance has no meaning for a politics that is merely the continuation of war by other means Both religious zealots and defenders of scientific fact declare a monopoly on truth and the moral law while radicals are powerless to resist since they have lost faith that ethics can be anything but arbitrary Meanwhile insane bureaucracy devastates life while nations fall into dishonor as they abandon their promises of justice If the moral law cannot save us perhaps it is time to try moral chaos Chaos Ethics collides philosophers such as Kant Nietzsche Levinas Mary Midgley Alasdair MacIntyre Alain Badiou Isabelle Stengers and Bruno Latour with everything from cyberpunk science fiction and the fantasy novels of Michael Moorcock to Google gay marriage drone assassinations and the ethics of cats and dogs A strange and wondrous journey through morality viewed as a facet of imagination that offers a new perspective in which the diversity of ethics is a strength not a weakness hesitation is more noble than certainty and virtue can be expressed in both law and chaos

New York's Nanotechnology Model National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Competing in the 21st Century: Best Practice in State and Regional Innovation Initiatives, 2013-11-14 New York's Nanotechnology Model Building the Innovation Economy is the summary of a 2013 symposium convened by the National Research Council Board on Science Technology and Economic Policy and members of the Nano Consortium that drew state officials and staff business leaders and leading national figures in early stage finance technology engineering education and state and federal policies to review challenges plans and opportunities for innovation led growth in New York The symposium participants assessed New York's academic industrial and human resources identified key policy issues and engaged in a discussion of how the state might leverage regional development organizations state initiatives and national programs focused on manufacturing and innovation to support its economic development goals This report highlights the accomplishments and growth of the innovation ecosystem in New York while also identifying needs challenges and opportunities New York's Nanotechnology Model reviews the development of the Albany nanotech cluster and its usefulness as a model for innovation based growth while also discussing the New York innovation ecosystem more broadly

Large Meteorite Impacts and Planetary Evolution V Gordon R. Osinski, David Allen Kring, 2015 In this volume the geologic and planetary science communities explore impact

events and how they affected the evolution of Earth and other planetary bodies these papers are the outcome of a conference held every five years

Environmental Governance Arild Vatn,2015-12-18 In this innovative book Arild Vatn presents an overview of the field of environmental governance from its theoretical foundations to the major issues and practical applications While having an interdisciplinary orientation the main theoretical basis is in institutional theory The book spans issues from the global to the local level and puts environmental governance within the wider field of economic policy and development This book is perfect for interdisciplinary masters programs in environmental studies environmental policy and management as well as being of value to practitioners in the field

Intellectual Path Dependence in Economics Altug Yalcintas,2016-03-10 Is economics always self corrective Do erroneous theorems permanently disappear from the market of economic ideas Intellectual Path Dependence in Economics argues that errors in economics are not always corrected Although economists are often critical and open minded unfit explanations are nonetheless able to reproduce themselves The problem is that theorems sometimes survive the intellectual challenges in the market of economic ideas even when they are falsified or invalidated by criticism and an abundance of counter evidence A key question which often gets little or no attention is why do economists not reject theories when they have been refuted by evidence and falsified by philosophical reasoning This book explores the answer to this question by examining the phenomenon of intellectual path dependence in the history of economic thought It argues that the key reason why economists do not reject refuted theories is the epistemic costs of starting to use new theories Epistemic costs are primarily the costs of scarcity of the most valued element in academic production time Epistemic scarcity overwhelmingly dominates the evolution of scientific research in such a way that when researchers start off a new research project they allocate time between replicable and unreplicable research This book is essential reading for anyone interested in the methodology philosophy and history of economics

Quantitative Aptitude & Data Interpretation Topic-wise Solved Papers for IBPS/ SBI Bank PO/ Clerk Prelim & Main Exam (2010-19) 3rd Edition Disha Experts,2019-03-26 Topic wise Bank PO Clerk Prelim Mains Solved Papers Quantitative Aptitude 2nd Edition consists of past solved papers of Bank Exams IBPS PO IBPS Clerk SBI PO SBI Clerk and Specialist Officer from 2010 to 2018 The coverage of the papers has been kept RECENT 2010 to 2018 as they actually reflect the changed pattern of the Banking exams Thus the papers prior to 2010 have not been included in the book In all there are 38 Question papers from 2010 to 2018 which have been provided topic wise along with detailed solutions Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination In the end this book will make the aspirants competent enough to crack the uncertainty of success in the Entrance Examination The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students

Exploring Science Through Science Fiction Barry B. Luukkala,2019-11-01 How does Einstein s description of space and time compare with Doctor Who Can James Bond really

escape from an armor plated railroad car by cutting through the floor with a laser concealed in a wristwatch What would it take to create a fully intelligent android such as Star Trek's Commander Data Exploring Science Through Science Fiction addresses these and other intriguing questions using science fiction as a springboard for discussing fundamental science concepts and cutting edge science research It includes references to original research papers landmark scientific publications and technical documents as well as a broad range of science literature at a more popular level The revised second edition includes expanded discussions on topics such as gravitational waves and black holes machine learning and quantum computing gene editing and more In all the second edition now features over 220 references to specific scenes in more than 160 sci fi movies and TV episodes spanning over 100 years of cinematic history Designed as the primary text for a college level course this book will appeal to students across the fine arts humanities and hard sciences as well as any reader with an interest in science and science fiction Praise for the first edition This journey from science fiction to science fact provides an engaging and surprisingly approachable read Jen Jenkins Journal of Science Fiction Vol 2 1 September 2017

Technologies for Smart Sensors and Sensor Fusion Kevin Yallup, Krzysztof Iniewski, 2017-12-19 Exciting new developments are enabling sensors to go beyond the realm of simple sensing of movement or capture of images to deliver information such as location in a built environment the sense of touch and the presence of chemicals These sensors unlock the potential for smarter systems allowing machines to interact with the world around them in more intelligent and sophisticated ways Featuring contributions from authors working at the leading edge of sensor technology Technologies for Smart Sensors and Sensor Fusion showcases the latest advancements in sensors with biotechnology medical science chemical detection environmental monitoring automotive and industrial applications This valuable reference describes the increasingly varied number of sensors that can be integrated into arrays and examines the growing availability and computational power of communication devices that support the algorithms needed to reduce the raw sensor data from multiple sensors and convert it into the information needed by the sensor array to enable rapid transmission of the results to the required point Using both SI and US units the text Provides a fundamental and analytical understanding of the underlying technology for smart sensors Discusses groundbreaking software and sensor systems as well as key issues surrounding sensor fusion Exemplifies the richness and diversity of development work in the world of smart sensors and sensor fusion Offering fresh insight into the sensors of the future Technologies for Smart Sensors and Sensor Fusion not only exposes readers to trends but also inspires innovation in smart sensor and sensor system development Consciousness and Being Robert C. Trundle, 2019-02-14 This book is of vital interest to anyone who yearns to know how science theology ethics art and politics do really afford objective truths Not only that but how these truths in seemingly clashing areas are interrelated by common sense and rooted in our incontrovertible consciousness of Being itself Being itself as the basis for truth is defended against truth denying modern philosophers who having headed in the wrong direction with tragic costs of

murderous ideologies have completely misunderstood the simple origin of truth in the realist tradition of Aristotle Aquinas Etienne Gilson and others Their profoundness is not bamboozled by the covert and corrupting sophism of today s teachings Anyone interested in surmounting these teachings that include political correctness and a false divide of fact from value which paralyze the very modern ethics that helped to create them should read this book The book reveals how ethics art and politics can be as true as the sciences that inform them

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