



GRADE 11 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 1: PHYSICS

SECTION A

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the **LETTER (A-D)** next to the **QUESTION NUMBER** in your answer book.

- 1.1 An example of a vector quantity:
- velocity
 - displacement
 - speed
 - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
 - applied force
 - gravity
 - normal force
- 1.3 Two forces F_1 and F_2 have a net force of 100N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of F_1 and F_2 will be:
- 70N and 30N
 - 100N and 0N
 - 60N and 40N
 - 80N and 20N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 6V
 - 7V
 - 20
 - 30
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20:
- 100
 - 4/50
 - 50
 - 60
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
 - frictional force is more than 200N
 - frictional force is less than 200N
 - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole **P**. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point **X**?

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	up and down inside the coil	North
C	into the coil	South
D	up and down inside the coil	South

Physical Science November 2014 Question Papers

CO Houle



Physical Science November 2014 Question Papers:

Christopher Nolan Darren Mooney, 2018-10-24 Christopher Nolan is one of the defining directors of the 21st century Few of his contemporaries can compete in terms of critical and commercial success let alone cultural impact His films have a rare ability to transcend audience expectations appealing to both casual moviegoers and dyed in the wool cineastes Nolan s work ranges from gritty crime thrillers Memento Insomnia to spectacular blockbusters the Dark Knight trilogy Inception They have taken audiences from the depths of space Interstellar to the harsh realities of war Dunkirk And they have pushed the boundaries of the possible in modern movie making This critical history covers his complete filmography tracing his career from film student to indie darling to Oscar nominated auteur Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategy to Optimize the U.S. Optical and Infrared System in the Era of the Large Synoptic Survey Telescope (LSST), 2015-06-26 New astronomical facilities such as the under construction Large Synoptic Survey Telescope and planned 30 meter class telescopes and new instrumentation on existing optical and infrared OIR telescopes hold the promise of groundbreaking research and discovery How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants Optimizing the U S Ground Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council NRC decadal surveys New Worlds New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013 2022 as well as other NRC reports This report describes a vision for a U S OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities and near term critical coordination planning and instrumentation needed to usher in the era of LSST and giant telescopes **Commerce, Justice, Science, and Related Agencies Appropriations for 2016** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2015 **The G20 and the Future of International Economic Governance** Mike Callaghan, Tristram Sainsbury, 2015-10-01 The G20 needs to be bold and pragmatic if it is to deal effectively with the global economy s big issues Since its establishment in 1999 the G20 has become a key international forum But it suffers from inherent design flaws and remains a work in progress When Australia began its presidency of the 2014 summit in Brisbane many commentators suggested that Australia s chairing of the G20 would reinvigorate it This timely book looks at what was achieved at the Brisbane Summit and what has happened in its wake Crucially it explores what role the G20 could and should play in dealing with such pressing global issues as international taxation trade energy and climate change Expert contributors many of them former inside players assess the impact of the

summit in the context of the year's broader geopolitical challenges including Russia's temporary expulsion from the G8 and the failure of the US to ratify its governance reforms to the IMF. Taking stock, contributors question the effectiveness of the G20 and identify the reforms that are needed if it is to offer strong leadership in an integrated global economy. Together they ask what is the future of the G20 and other Gs.

Teaching and Digital Technologies Michael Henderson, Geoff Romeo, 2016-01-08 Teaching and Digital Technologies: Big Issues and Critical Questions helps both pre-service and in-service teachers to critically question and evaluate the reasons for using digital technology in the classroom. Unlike other resources that show how to use specific technologies and quickly become outdated, this text empowers the reader to understand why they should or should not use digital technologies when it is appropriate or not and the implications arising from these decisions. The text directly engages with policy, the Australian Curriculum, pedagogy, learning and wider issues of equity, access, generational stereotypes and professional learning. The contributors to the book are notable figures from across a broad range of Australian universities, giving the text a unique relevance to Australian education while retaining its universal appeal. Teaching and Digital Technologies is an essential contemporary resource for early childhood, primary and secondary pre-service and in-service teachers in both local and international education environments.

The Strongest Magnetic Fields in the Universe Vasily S. Beskin, A. Balogh, Maurizio Falanga, Maxim Lyutikov, Sandro Mereghetti, Tsvi Piran, R.A. Treumann, 2016-01-29

This volume extends the ISSI series on magnetic fields in the Universe into the domain of what are by far the strongest fields in the Universe and stronger than any field that could be produced on Earth. The chapters describe the magnetic fields in non-degenerate strongly magnetized stars, in degenerate stars such as white dwarfs and neutron stars, exotic members called magnetars and in their environments as well as magnetic fields in the environments of black holes. These strong fields have a profound effect on the behavior of matter, visible in particular in highly variable processes like radiation in all known wavelengths including Gamma Ray bursts. The generation and structure of such strong magnetic fields and effects on the environment are also described.

Solar System Planets and Exoplanets Joseph Bevelacqua, 2021-07-07 Solar System Planets and Exoplanets provides a current viewpoint of planetary systems. The solar system's planets and exoplanets are addressed in an overview manner and specific space probe data are used to provide a current state of knowledge of Venus and Mars. Recent Mars data and associated observations are addressed in several chapters. Of particular interest are data that suggest the possibility that life could have existed on the planet's surface during its past when Mars' atmosphere was wetter and denser. The search for life on Mars is one of the main objectives of space missions and it is an ongoing theme of this book. Key to the existence of life is the evolution of the radiation output of the Sun that is discussed and projected into the future. Space probe data related to the Asteroid Belt is also presented. Technological advances in terms of operating aircraft on Mars and propulsion systems provide useful commentary regarding future innovations that will enhance upcoming space missions and the search for life.

System Level ESD Co-Design Charvaka Duvvury, Harald

Gossner,2017-05-05 An effective and cost efficient protection of electronic system against ESD stress pulses specified by IEC 61000 4 2 is paramount for any system design This pioneering book presents the collective knowledge of system designers and system testing experts and state of the art techniques for achieving efficient system level ESD protection with minimum impact on the system performance All categories of system failures ranging from hard to soft types are considered to review simulation and tool applications that can be used The principal focus of System Level ESD Co Design is defining and establishing the importance of co design efforts from both IC supplier and system builder perspectives ESD designers often face challenges in meeting customers system level ESD requirements and therefore a clear understanding of the techniques presented here will facilitate effective simulation approaches leading to better solutions without compromising system performance With contributions from Robert Ashton Jeffrey Dunnihoo Micheal Hopkins Pratik Maheshwari David Pomerence Wolfgang Reinprecht and Matti Usomaki readers benefit from hands on experience and in depth knowledge in topics ranging from ESD design and the physics of system ESD phenomena to tools and techniques to address soft failures and strategies to design ESD robust systems that include mobile and automotive applications The first dedicated resource to system level ESD co design this is an essential reference for industry ESD designers system builders IC suppliers and customers and also Original Equipment Manufacturers OEMs Key features Clarifies the concept of system level ESD protection Introduces a co design approach for ESD robust systems Details soft and hard ESD fail mechanisms Detailed protection strategies for both mobile and automotive applications Explains simulation tools and methodology for system level ESD co design and overviews available test methods and standards Highlights economic benefits of system ESD co design **Artificial Intelligence**

Saswat Sarangi,Pankaj Sharma,2018-09-03 What will the future be A dystopian landscape controlled by machines or a brave new world full of possibilities Perhaps the answer lies with Artificial Intelligence AI a phenomenon much beyond technology that has continues to and will shape lives in ways we do not understand yet This book traces the evolution of AI in contemporary history It analyses how AI is primarily being driven by capital as the only factor of production and its consequences for the global political economy It further explores the dystopian prospect of mass unemployment by AI and takes up the ethical aspects of AI and its possible use in undermining natural and fundamental rights A tract for the times this volume will be a major intervention in an area that is heavily debated but rarely understood It will be essential reading for researchers and students of digital humanities politics economics science and technology studies physics and computer science It will also be key reading for policy makers cyber experts and bureaucrats Cambridge International AS Level English General Paper Coursebook Jill Pavich,2018-03-29 The only endorsed resources for the Cambridge International AS Level English General Paper syllabus 8021 Through exploration of a wide array of topics from celebrity culture to poetry in the modern world this book focuses on strengthening communication evaluation analysis application and understanding skills Helping students improve their written responses use of English and comprehension this coursebook looks at discussion

points relevant to the globally minded classroom With frequent practice questions and sample answers students have plenty of opportunities to build their confidence answering questions Answers to coursebook questions are in the teacher s resource

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

Physics of Radiation and Climate Michael A. Box, Gail P. Box, 2015-10-14 Our current climate is strongly influenced by atmospheric composition and changes in this composition are leading to climate change *Physics of Radiation and Climate* takes a look at how the outward flow of longwave or terrestrial radiation is affected by the complexities of the atmosphere s molecular spectroscopy This book examines the planet in

MH-SET Paper 1 Guide for Assistant Professor with Past Questions Disha Experts, 2020-02-29

The Carbon Crunch Dieter Helm, 2015-01-01 In a new edition of his hard hitting book on climate change economist Dieter Helm looks at how and why we have failed to tackle the issue of global warming and argues for a new pragmatic rethinking of energy policy An optimistically levelheaded book about actually dealing with global warming Kirkus Reviews starred review Dieter Helm has turned his agile mind to one of the great problems of our age why the world s efforts to curb the carbon dioxide emissions behind global warming have gone so wrong and how it can do better Pilita Clark Financial Times

Crime, Violence, and Global Warming John Crank, Linda Jacoby, 2015-05-20 *Crime Violence and Global Warming* introduces the many connections between climate change and criminal activity Conflict over natural resources can escalate to state and non state actors resulting in wars asymmetrical warfare and terrorism Crank and Jacoby apply

criminological theory to each aspect of this complicated web helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime Beginning with an overview of the science of global warming the authors move on to the links between climate change scarce resources and crime Their approach takes in the full scope of causes and consequences present and future in the United States and throughout the world The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet s future The War Report Annyssa

Bellal,2015-12-10 This War Report provides detailed information on every armed conflict which took place during 2014 offering an unprecedented overview of the nature range and impact of these conflicts and the legal issues they created In Part I the Report describes its criteria for the identification and classification of armed conflicts under international law and the legal consequences that flow from this classification It sets out a list of armed conflicts in 2014 categorising each as international non international or a military occupation with estimates of civilian and military casualties In Part II each of these conflicts are examined in more detail with an overview of the belligerents means and methods of warfare the applicable treaties and rules and any prosecutions for investigations into or robust allegations of war crimes Part III of the Report provides detailed thematic analysis of key legal developments which arose in the context of these conflicts allowing for a more in depth reflection on cross cutting questions and controversies The Report gives a full and accessible overview of armed conflicts in 2014 It should be the first port of call for everyone working in the field **Oswaal Government Exams**

Question Bank Graduation Pass | General Awareness | for 2024 Exam Oswaal Editorial Board,2024-01-19 Description of the product 100% Updated with Topic wise Practice Questions Explanations Fill Learning Gaps with Revision Notes Supported Videos Concept Recap with Smart Mind Maps Chapter Analysis Smart Short cuts with short cuts and detailed explanations Valuable Exam Insights with Tips and Tricks to ace Government Exams in the first attempt *Climate Change*

Adaptation and Food Supply Chain Management Ari Paloviita,Marja Järvelä,2015-08-20 The success of the entire food supply chain depends on the prosperity of farms and local communities The direct climate change risks faced by the agricultural sector are therefore also risks to businesses and food supply chains Hence the importance of resilience at farm level community level and business level when looking at food supply chain policy and management Climate Change Adaptation and Food Supply Chain Management highlights the issue of adaptation to climate change in food supply chains the management and policy implications and the importance of supply chain resilience Attention is given to each phase of the supply chain input production agriculture food processing retailing consumption and post consumption European case studies demonstrate the vulnerabilities of contemporary food supply chains the opportunities and competitive advantages related to climate change and the trans disciplinary challenges related to successful climate adaptation The authors argue for

a redefinition of the way food supply chains are operated located and coordinated and propose a novel approach enhancing climate resilient food supply chain policy and management This book will be of interest to students researchers practitioners and policymakers in the field of climate adaptation and food supply chain management and policy Climate Hazard Crises in Asian Societies and Environments Troy Sternberg, 2017-01-20 Climate hazards are the world's most widespread deadliest and costliest natural disasters Knowledge of climate hazard dynamics is critical since the impacts of climate change population growth development projects and migration affect both the impact and severity of disasters Current global events highlight how hazards can lead to significant financial losses increased mortality rates and political instability This book examines climate hazard crises in contemporary Asia identifying how hazards from the Middle East through South and Central Asia and China have the power to reshape our globalised world In an era of changing climates knowledge of hazard dynamics is essential to mitigating disasters and strengthening livelihoods and societies across Asia By integrating human exposure to climate factors and disaster episodes the book explores the environmental forces that drive disasters and their social implications Focusing on a range of Asian countries landscapes and themes the chapters address several scales province national regional different hazards drought flood temperature storms dust environments desert temperate mountain coastal and issues vulnerability development management politics to present a diverse comprehensive evaluation of climate hazards in Asia This book offers an understanding of the challenges climate hazards present their critical nature and the effort needed to mitigate climate hazards in 21st century Asia Climate Hazard Crises in Asian Societies and Environments is vital reading for those interested and engaged in Asia's development and well being today and will be of interest to those working in Geography Development Studies Environmental Sciences Sociology and Political Science *Printing on Polymers* Joanna Izdebska-Podsiadły, Sabu Thomas, 2015-09-24 Printing on Polymers Fundamentals and Applications is the first authoritative reference covering the most important developments in the field of printing on polymers their composites nanocomposites and gels The book examines the current state of the art and new challenges in the formulation of inks surface activation of polymer surfaces and various methods of printing The book equips engineers and materials scientists with the tools required to select the correct method assess the quality of the result reduce costs and keep up to date with regulations and environmental concerns Choosing the correct way of decorating a particular polymer is an important part of the production process Although printing on polymeric substrates can have desired positive effects there can be problems associated with various decorating techniques Physical chemical and thermal interactions can cause problems such as cracking peeling or dulling Safety environmental sustainability and cost are also significant factors which need to be considered With contributions from leading researchers from industry academia and private research institutions this book serves as a one stop reference for this field from print ink manufacture to polymer surface modification and characterization and from printing methods to applications and end of life issues Enables engineers to select the correct decoration method

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Table of Contents Physical Science November 2014 Question Papers

1. Understanding the eBook Physical Science November 2014 Question Papers
 - The Rise of Digital Reading Physical Science November 2014 Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science November 2014 Question Papers
 - 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 Physical Science November 2014 Question Papers
 - User-Friendly Interface

4. Exploring eBook Recommendations from Physical Science November 2014 Question Papers
 - Personalized Recommendations
 - Physical Science November 2014 Question Papers User Reviews and Ratings
 - Physical Science November 2014 Question Papers and Bestseller Lists
5. Accessing Physical Science November 2014 Question Papers Free and Paid eBooks
 - Physical Science November 2014 Question Papers Public Domain eBooks
 - Physical Science November 2014 Question Papers eBook Subscription Services
 - Physical Science November 2014 Question Papers Budget-Friendly Options
6. Navigating Physical Science November 2014 Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science November 2014 Question Papers Compatibility with Devices
 - Physical Science November 2014 Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science November 2014 Question Papers
 - Highlighting and Note-Taking Physical Science November 2014 Question Papers
 - Interactive Elements Physical Science November 2014 Question Papers
8. Staying Engaged with Physical Science November 2014 Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science November 2014 Question Papers
9. Balancing eBooks and Physical Books Physical Science November 2014 Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science November 2014 Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science November 2014 Question Papers
 - Setting Reading Goals Physical Science November 2014 Question Papers
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Physical Science November 2014 Question Papers
 - Fact-Checking eBook Content of Physical Science November 2014 Question Papers
 - 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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compressed sensing also known as compressive sensing compressive sampling or sparse sampling is a signal processing technique for efficiently acquiring and reconstructing a signal by finding solutions to underdetermined linear systems

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