



**GRADE 10 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 Which of the following is an example of a vector?

- A time
- B speed
- C pressure
- D mass

1.2 What can be determined by calculating the gradient of a position vs time graph?

- A acceleration
- B displacement
- C velocity
- D none of the above

Use the circuit diagram below to answer QUESTIONS 1.3 and 1.4



1.3 The voltage over the parallel resistors will be:

- A 8V
- B 7V
- C 2V
- D 3V

1.4 The current in ONE parallel branch if the resistor offered a resistance of 0.5Ω

- A 1A
- B 4A
- C 1.5A
- D 3A

1.5 The equivalent unit for work is:

- A joule per coulomb
- B joule per second
- C joule per ampere
- D coulomb per second

1.6 Two waves moving in opposite directions collide with constructive interference. Wave A has an amplitude of 2 units and Wave B has an amplitude of 0.5 units. The combined wave has an amplitude of:

- A 1.5 units
- B 2 units
- C 2.5 units
- D 0.5 units

1.7 A ball with a mass of 2kg is released from a height of 20m and takes 1.2s to reach the ground. If the mass of the ball is increased to 8kg the time it takes to reach the ground will:

- A increase
- B Decrease
- C Remain the same

1.8 A glass rod and a cloth are rubbed against each other. The glass rod becomes positively charged. Which statement best describes the reason for this?

- A The glass rod gained protons from the cloth.
- B The cloth gained electrons from the glass rod.
- C The glass rod lost protons to the cloth.
- D The cloth lost electrons to the glass rod.

Physical Science National Paper 2014 17 November Paper

Leif Christian Jensen, Geir Hønneland



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Bulk Collection of Signals Intelligence National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report

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

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

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Oil's Deep State Kevin Taft,2017-10-06 Why have democratic governments failed to take serious steps to reduce carbon emissions despite dire warnings and compelling evidence of the profound and growing threat posed by global warming Most of the writing on global warming is by scientists academics environmentalists and journalists Kevin Taft a former leader of the opposition in Alberta brings a fresh perspective through the insight he gained as an elected politician who had an insider s eyewitness view of the role of the oil industry His answer in brief The oil industry has captured key democratic institutions in both Alberta and Ottawa Taft begins his book with a perceptive observer s account of a recent court case in Ottawa which laid bare the tactics and techniques of the industry its insiders and lobbyists He casts dramatic new light on exactly how corporate lobbyists politicians bureaucrats universities and other organizations are working together to pursue the oil industry s agenda He offers a brisk tour of the recent work of scholars who have developed the concepts of the deep state and institutional capture to understand how one rich industry can override the public interest Taft views global warming and weakened democracy as two symptoms of the same problem the loss of democratic institutions to corporate influence and control He sees citizen engagement and direct action by the public as the only response that can unravel big oil s deep state

Handbook of Inclusive Innovation Gerard George,2019 The Handbook of Inclusive and Social Innovation The Role of

Organizations Markets and Communities offers a comprehensive review of research on inclusive innovation to address systemic and structural issues the Grand Challenges of our time With 27 contributions from 57 scholars the Handbook provides frameworks and insights by summarising current research and highlights emerging practices and scalable solutions The contributions highlight a call to action and place social impact at the heart of theory and practice It will be an invaluable resource for academics practitioners and policymakers who champion social inclusion and emphasize innovative approaches to addressing sustainable development goals

What We Think About When We Try Not To Think About Global Warming Per Espen Stoknes, 2015 Today about 98 percent of scientists affirm that climate change is human made and about 2 percent still question it Despite that overwhelming majority though about half the population of rich countries like ours choose to believe the 2 percent And paradoxically this large camp of deniers grows even larger as more and more alarming proof of climate change has cropped up over the last decades This disconnect has both climate scientists and activists scratching their heads growing anxious and responding usually by repeating more facts to win the argument But the more climate facts pile up the greater the resistance to them grows and the harder it becomes to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead Is humanity up to the task It is a catch 22 that starts says psychologist and climate expert Per Espen Stoknes from an inadequate understanding of the way most humans think act and live in the world around them With dozens of examples he shows how to retell the story of climate change and apply communication strategies more fit for the task Publisher's description

Climate Change Adaptation, Resilience and Hazards Walter Leal Filho, Haruna Musa, Gina Cavan, Paul O'Hare, Julia Seixas, 2016-07-28 This book analyses the links between climate change adaptation resilience and the impacts of hazards The contributors cover topics such as climate change adaptation in coastal zones the evaluation of community land models climate change considerations in public health and water resource management as well as conceptual frameworks for understanding vulnerabilities to extreme climate events The book focuses on a variety of concrete projects initiatives and strategies currently being implemented across the world It also presents case studies trends data and projects that illustrate how cities communities and regions have been striving to achieve resilience and have handled hazards

The Impact of Climate Change Mitigation on Indigenous and Forest Communities Maureen F. Tehan, Lee C. Godden, Margaret A. Young, Kirsty A. Gover, 2017-10-26 The international legal framework for valuing the carbon stored in forests known as Reducing Emissions from Deforestation and Forest Degradation REDD will have a major impact on indigenous peoples and forest communities The REDD regime contains many assumptions about the identity tenure and rights of indigenous and local communities who inhabit use or claim rights to forested lands The authors bring together expert analysis of public international law climate change treaties property law human rights and indigenous customary land tenure to provide a systemic account of the laws governing forest carbon sequestration and their interaction Their work covers recent developments in climate change law including the

Agreement from the Conference of the Parties in Paris that came into force in 2016 The Impact of Climate Change Mitigation on Indigenous and Forest Communities is a rich and much needed new contribution to contemporary understanding of this topic

The Best of COMVEC 2016 Select Technical Papers from the SAE Commercial Vehicle Engineering Congress Kevin Jost, Corina Sandu, Ryan Gehm, 2016-09-24 This special collection highlights some of the best technical papers that represent the breadth of the entire technical program Leading industry perspectives are reflected by the corporate contributions that are included in this group along with a specific focus on connectivity the theme of the 2016 event The commercial vehicle industry has always been focused on improving efficiency These ten characteristic offerings present cutting edge trends technologies and solutions that provide greater benefit and the application of knowledge to solve problems and guide future innovation These studies are presented by experts from industrial governmental and academic partners on topics that include Autonomous commercial vehicles Computational fluid dynamics and aerodynamics for heavy duty on road applications Fuel and emissions efficiency of medium duty powertrain configurations Intelligently controlled air suspension systems Improving total cost of ownership by gains in thermal efficiency New simulation and testing techniques enabling next generation commercial vehicle technology The leadership team has focused on bringing in a broad mixture of participants to COMVEC to discuss current technologies and the future challenges of the commercial vehicle industry This first of its kind special publication draws on the strength of the event's program and features ten of the best technical papers from the SAE International Congress

The Space Law Stalemate Anja Pečujlić, 2023-03-21 The governing international space law regime has been locked in a norm creation stalemate for over 40 years This stalemate endangers the preservation of established guiding legal principles as well as the sustainability of the parts of outer space that humans utilize The discrepancy between norm creation technological advancement and the ecosystem of novel actors could generate serious consequences for future space activities and the nature of international relations Besides the return of old rivalries in a New Cold War new activities and actors emerging amidst a legal void emphasizes the risks of the stalemate unstable peace fragile cooperation uneven technological development and uncertain eco sustainability The prolonged legal stalemate cannot be treated simply as an academic question for it has broader political and economic implications of growing strategic relevance Unresolved issues in international space law could threaten the survival of space as a global common thus it is essential that the ability of the norm creation mechanism of UN COPUOS is equipped to address the ongoing changes and provide for adequate global governance This book evaluates the current legal state and sheds light on potential future prospects offering an overview of the political context within which it developed providing an assessment of the selected successful examples in international law and analyzing lessons learned It makes recommendations for how the UN COPUOS legal apparatus should be modified in order to ensure that future space activities are possible beyond anarchy greed and ecological irresponsibility and to ensure that the principle of the peaceful uses of outer space remains the governing norm

Handbook of

Generation IV Nuclear Reactors Igor Pioro, 2022-12-07 Handbook of Generation IV Nuclear Reactors Second Edition is a fully revised and updated comprehensive resource on the latest research and advances in generation IV nuclear reactor concepts Editor Igor Pioro and his team of expert contributors have updated every chapter to reflect advances in the field since the first edition published in 2016 The book teaches the reader about available technologies future prospects and the feasibility of each concept presented equipping them users with a strong skillset which they can apply to their own work and research Provides a fully updated revised and comprehensive handbook dedicated entirely to generation IV nuclear reactors Includes new trends and developments since the first publication as well as brand new case studies and appendices Covers the latest research developments and design information surrounding generation IV nuclear reactors

Choices in Relationships David Knox, Caroline Schacht, I. Joyce Chang, 2020-01-07 Cutting edge and student friendly Choices in Relationships takes readers through the lifespan of relationships marriages and families and utilizes research to help them make deliberate informed choices in their interpersonal relationships

Ethics and climate change, 2015-07-27 Climate change is the most significant moral and environmental issue of our time This project seeks to help deepen explicit ethical reflection around the world on national responses to climate change by developing a publicly available record on national compliance with ethical obligations for climate change similar to the reports that are now available on national compliance with human rights obligations

Environmental Systems Science Daniel A. Vallero, 2021-05-27 Environmental Systems Science Theory and Practical Applications looks at pollution and environmental quality from a systems perspective Credible human and ecological risk estimation and prediction methods are described including life cycle assessment feasibility studies pollution control decision tools and approaches to determine adverse outcome pathways fate and transport sampling and analysis and cost effectiveness The book brings translational science to environmental quality applying groundbreaking methodologies like informatics data mining and applications of secondary data systems Multiple human and ecological variables are introduced and integrated to support calculations that aid environmental and public health decision making The book bridges the perspectives of scientists engineers and other professionals working in numerous environmental and public health fields addressing problems like toxic substances deforestation climate change and loss of biological diversity recommending sustainable solutions to these and other seemingly intractable environmental problems The causal agents discussed include physical chemical and biological agents such as per and polyfluoroalkyl substances PFAS SARS CoV 2 the COVID 19 virus and other emerging contaminants Provides an optimistic and interdisciplinary approach underpinned by scientific first principles and theory to evaluate pollutant sources and sinks applying biochemodynamic methods measurements and models Deconstructs prior initiatives in environmental assessment and management using an interdisciplinary approach to evaluate what has worked and why Lays out a holistic understanding of the real impact of human activities on the current state of pollution linking the physical sciences and engineering with socioeconomic cultural

perspectives and environmental justice Takes a life cycle view of human and ecological systems from the molecular to the planetary scale integrating theories and tools from various disciplines to assess the current and projected states of environmental quality Explains the elements of risk reliability and resilience of built and natural systems including discussions of toxicology sustainability and human pollutant interactions based on spatial biological and human activity information i e the exposome Environment, Climate Change and Migration in South Asia Amit Ranjan,Rajesh Kharat,Pallavi Deka,2023-03-31 Climate change has been fueling migration and according to some policy reports there could more than one billion climate migrants refugees across the world by 2050 In South Asia disasters environmental degradation and climate change are increasing the number of migrants every year In South Asia like other parts of the world migrants and displaced people mainly move within their respective countries but some cross the porous border At most places the migrants and displaced people face hostile situation as they are not welcome by their local host population The chapters in the book highlight the challenges and inadequacies of governments and communities in protecting the environment as well as the disproportionate effect that climate change has on the poor and marginalized groups The book also discusses the gendered experiences of climate related migrations and policy measures which need to be implemented to counter forced displacements and environment degradation along with the legal and institutional resources which could help mitigate climate change and protect climate refugees This book will be of interest to students and researchers of development studies ecology and environment migration sociology law and governance human ecology climate change and economics

Keeping Canada Running G. Bruce Doern,Christopher Stoney,Robert Hilton,2021-09-29 The federal government s promises to build back better and build back green highlight opportunities to reimagine Canadian infrastructure In this groundbreaking study authors Bruce Doern Christopher Stoney and Robert Hilton provide the first comprehensive overview of Canadian infrastructure policy examining the impact and implications of the COVID 19 pandemic and rapid technological change as Canada looks to recover and rebuild Covering more than fifty years across many sectors the authors identify numerous challenges that have contributed to Canada s growing infrastructure deficit and suboptimal outcomes including political interference in the choice of infrastructure projects challenges for multilevel governance such as distortion of local priorities blurred accountability and unsustainable maintenance costs for municipalities the growing reliance on public private partnerships that limit transparency and public scrutiny and increased corruption associated with infrastructure projects Transforming infrastructure is notoriously difficult yet vital at a time of rapid technological change It is estimated that 75 percent of the infrastructure that will exist in 2050 does not exist today This makes it crucial that Canada invest in future proof infrastructure with the capacity to facilitate economic growth and the expansion of urban centres mitigate and adapt to the impacts of climate change and ensure resilience in response to crises and disasters Keeping Canada Running offers a timely assessment of these issues Canada s COVID 19 response and the potential contribution of the newly launched

Canadian Infrastructure Bank

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