



## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and enter ONLY the LETTER (A-D) next to the QUESTION NUMBER (q1 1-15) on your Data paper. Example: 1.6. D

- 1.1 A positively charged object has:
  - A. an attraction to other objects
  - B. an attraction to other positive charges
  - C. an attraction to other negative charges
  - D. an attraction to other metals
- 1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?
  - A. Ultraviolet
  - B. Gamma
  - C. Microwave
  - D. X-ray
- 1.3 In which ONE of the following do sound waves travel the FASTEST?
  - A. Vacuum
  - B. Air
  - C. Oil
  - D. Water
- 1.4 The SI unit for charge is the ...
  - A. Coulomb
  - B. Volt
  - C. Ampere
  - D. Joule
- 1.5 The relationship between voltage and work done is:
  - A. Inverse
  - B. Inversely proportional
  - C. Directly proportional
  - D. Inversely proportional squared

[10]

### QUESTION 2

Below is a representation of two waves consisting of continuous pulses. Study carefully and answer the questions that follow.



- 2.1 Define a pulse. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For wave Q:
  - 2.4.1 What is the magnitude of its wavelength in metres? (1)
  - 2.4.2 What is the frequency of the pulse? (1)
  - 2.4.3 Calculate the wave speed. (2)
- 2.5 If the waves were sent towards each other and allowed to collide:
  - 2.5.1 What happens to wave P's amplitude? (2)
  - 2.5.2 What happens to wave Q's amplitude? (2)

[14]

### QUESTION 3

- 3.1 The diagram below shows different parts on a longitudinal wave.



- 3.1.1 Point out the parts of the wave.

(3)

# Physical Science Paper 2014 March

**Michael P. Kreuzer**



## **Physical Science Paper 2014 March:**

**Communication Technology Update and Fundamentals** August E. Grant, Jennifer H. Meadows, 2016-11-03

Communication Technology Update and Fundamentals has set the standard as the single best resource for students and professionals looking to brush up on how communication technologies have developed grown and converged as well as what is in store for the future The 15th edition is completely updated reflecting the changes that have swept the communication industries The first five chapters offer the communication technology fundamentals including the ecosystem the history and structure then delves into each of about two dozen technologies including mass media computers consumer electronics and networking technologies Each chapter is written by experts who provide snapshots of the state of each individual field Together these updates provide a broad overview of these industries as well as the role communication technologies play in our everyday lives In addition to substantial updates to each chapter the 15th edition includes First ever chapters on Big Data and the Internet of Things Updated user data in every chapter Projections of what each technology will become by 2031 Suggestions on how to get a job working with the technologies discussed The companion website [www.tfi.com/ctu](http://www.tfi.com/ctu) offers updated information on the technologies covered in this text as well as links to other resources

*Media Art and the Urban Environment* Francis T. Marchese, 2015-04-01 This text formally appraises the innovative ways new media artists engage urban ecology Highlighting the role of artists as agents of technological change the work reviews new modes of seeing representing and connecting within the urban setting The book describes how technology can be exploited in order to create artworks that transcend the technology's original purpose thus expanding the language of environmental engagement whilst also demonstrating a clear understanding of the societal issues and values being addressed Features assesses how data from smart cities may be used to create artworks that can recast residents understanding of urban space examines transformations of urban space through the reimagining of urban information discusses the engagement of urban residents with street art including collaborative community art projects and public digital media installations presents perspectives from a diverse range of practicing artists architects urban planners and critical theorists

*SOUVENIR of 3rd International Science Congress ISC-2013* Prof. Dipak Sharma, International Science Congress Association organized 3rd International Science Congress ISC 2013 with Innovation with Global Responsibility as its Focal Theme ISC 2013 is divided in 20 sections A total number of 900 Research Papers and 1000 registrations from 36 countries all over the world have been received They are mainly from India Iran Sudan Iraq South Africa Phillipines Pakistan Nighana Erode Czech Republic Bangladesh Swaziland Jordan USA Thailand Japan Malaysia Kazakhstan UK Colombia Nepal Italy Bulgariya Cameroun France Greece Kazakhstan Korea Lithuania Nigeria Poland Romania Slovakiya Ukraine Venezuela and Turkey

**Applied Risk Analysis for Guiding Homeland Security Policy and Decisions** Samrat Chatterjee, Robert T. Brigantic, Angela M.

Waterworth, 2021-02-09 Presents various challenges faced by security policy makers and risk analysts and mathematical

approaches that inform homeland security policy development and decision support Compiled by a group of highly qualified editors this book provides a clear connection between risk science and homeland security policy making and includes top notch contributions that uniquely highlight the role of risk analysis for informing homeland security policy decisions Featuring discussions on various challenges faced in homeland security risk analysis the book seamlessly divides the subject of risk analysis for homeland security into manageable chapters which are organized by the concept of risk informed decisions methodology for applying risk analysis and relevant examples and case studies Applied Risk Analysis for Guiding Homeland Security Policy and Decisions offers an enlightening overview of risk analysis methods for homeland security For instance it presents readers with an exploration of radiological and nuclear risk assessment along with analysis of uncertainties in radiological and nuclear pathways It covers the advances in risk analysis for border security as well as for cyber security Other topics covered include strengthening points of entry systems modeling for rapid containment and casualty mitigation and disaster preparedness and critical infrastructure resilience Highlights how risk analysis helps in the decision making process for homeland security policy Presents specific examples that detail how various risk analysis methods provide decision support for homeland security policy makers and risk analysts Describes numerous case studies from academic government and industrial perspectives that apply risk analysis methods for addressing challenges within the U S Department of Homeland Security DHS Offers detailed information regarding each of the five DHS missions prevent terrorism and enhance security secure and manage our borders enforce and administer our immigration laws safeguard and secure cyberspace and strengthen national preparedness and resilience Discusses the various approaches and challenges faced in homeland risk analysis and identifies improvements and methodological advances that influenced DHS to adopt an increasingly risk informed basis for decision making Written by top educators and professionals who clearly illustrate the link between risk science and homeland security policy making Applied Risk Analysis for Guiding Homeland Security Policy and Decisions is an excellent textbook and or supplement for upper undergraduate and graduate level courses related to homeland security risk analysis It will also be an extremely beneficial resource and reference for homeland security policy analysts risk analysts and policymakers from private and public sectors as well as researchers academics and practitioners who utilize security risk analysis methods

Innovations in Satellite Communications and Satellite Technology Daniel Minoli, 2015-02-27 Surveys key advances in commercial satellite communications and what might be the implications and or opportunities for end users and service providers in utilizing the latest fast evolving innovations in this field This book explores the evolving technical options and opportunities of satellite networks Designed to be a self contained reference the book includes background technical material in an introductory chapter that will serve as a primer to satellite communications The text discusses advances in modulation techniques such as DBV S2 extensions DVS S2X spotbeam based geosynchronous and medium earth orbit High Throughput Satellite HTS technologies and Internet applications enhanced

mobility services with aeronautical and maritime applications Machine to Machine M2M satellite applications emerging ultra HD technologies and electric propulsion The author surveys the latest innovations and service strategies and the resulting implications which involves Discussing advances in modulation techniques and HTS spotbeam technologies Surveying emerging high speed aeronautical mobility services and maritime and other terrestrial mobility services Assessing M2M machine to machine applications emerging Ultra HD video technologies and new space technology Satellite communication is an integral part of the larger fields of commercial television media government and military communications because of its multicast broadcast capabilities mobility reliability and global reach High Throughput Satellites are expected to revolutionize the field during this decade providing very high speed yet cost effective Internet access and connectivity anywhere in the world in rural areas in the air and at sea M2M connectivity enabled by satellite communications connects trucks on transcontinental trips aircraft in real time telemetry aggregation and mercantile ships A comprehensive analysis of the new advances in satellite communications Innovations in Satellite Communications Technology is a reference for telecommunications and satellite providers and end users technology investors logistic professionals and more

*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

**The Securitization of Climate Change: Australian and United States' Military Responses (2003 - 2013)** Michael Durant Thomas, 2017-07-25 This book examines how the armed forces of the United States and Australia have responded to the threat posed by climate change to national security Drawing on established securitisation frameworks Copenhagen and Paris Schools the author uses a combination of quantitative and qualitative techniques to systematically examine more than 3 500 speeches policies and doctrinal articles since 2003 Importantly the

author undertakes an examination of the intersection between the political and the military spheres probing the question of how ideology has influenced the military's uptake on the issue. In this context the author identifies the difficulty of an ostensibly apolitical institution responding to what has become both a hyper-political issue and an unprecedented security threat. A close examination of the key political actors, their intent, outlook and political mandate for broader climate action is therefore crucial to understanding the policy freedom and constraints within which military leaders operate. The book consists of eight chapters divided into four parts focusing on perspectives and methodological insights, empirical case studies, case study comparison and concluding observations. Offers a rare and systematic examination of military climate policy by a military officer from Australia. Identifies a divergence of Australian military climate policy from that of the US military during the Obama Administration. Develops a unique method that quantifies climate security enabling a graphical representation for quick and ready reference ideally suited to policy makers.

**The Chemical News and Journal of Physical Science**, 1911

**Chemical news and Journal of physical science**, 1870      *Developing Property Sustainably* Sara J. Wilkinson, Sarah L. Sayce, Pernille H. Christensen, 2015-06-05 *Developing Property Sustainably* introduces readers to the key issues surrounding sustainable property development in the global marketplace. Pulling together received wisdom and original research, the authors provide a clear and practical overview of the sustainable property development process as well as a critical appraisal of the problems faced by global built environment stakeholders. Throughout, the authors demonstrate how the property development industry could and should respond better to debate on sustainable practices in the built environment by adopting more rigorous measurement techniques and sustainable approaches. Starting by exploring key definitions and stakeholders, the book goes on to explore finance, planning, construction, procurement, occupation, retrofit and lifecycle sustainability in order to provide the reader with a detailed understanding of all the issues involved in the delivery of sustainable property development from inception to occupation and beyond. Throughout the book, international case studies are used to demonstrate how sustainable property development is applied in practice around the world. With a logical chapter structure and accessible writing style, *Developing Property Sustainably* would be perfect for use on undergraduate and postgraduate modules and courses in real estate development, property and urban development and other built environment programmes.

*Science Teaching in Schools* Great Britain: Parliament: House of Lords: Science and Technology Committee, 2006-11-05 The Committee's report examines science and mathematics teaching in secondary schools in England, focusing on the following issues: the take-up of science and mathematics at GCSE and A level; the provision of careers advice to students; problems in the recruitment and retention of teachers; the quality of teaching methods; and the role of continuing professional development. The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in society and to enable the next generation of scientists and engineers to progress into higher education and beyond. It argues that the current examination system forces students to study an

excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma based system for 14 19 year old students based on the International Baccalaureate This would ensure that students receive a more rounded education and are not made to over specialise before they are able to see the merits of studying science and mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools

**Drones and the Future of Air Warfare** Michael P. Kreuzer, 2016-05-26 This book examines the evolution of airpower and specifically the growth and proliferation of Remotely Piloted Aircraft RPAs While most existing literature examines either the law or ethics of RPAs and some newer scholarship looks to the battlefield effectiveness the gains from strikes versus the potential for blowback etc this work investigates it from a broader military perspective It examines the strategy for employment of RPAs across the spectrum of warfare the potential deterrent value of RPAs in some circumstances and the resulting ability of RPAs to fundamentally shift the character of when and how wars are fought The central aim of this book is to evaluate the role of drones in warfare to date and make basic projections on how states will adopt RPAs and UCAVs in the future At the core is the goal of answering a broad underlying research question How will the RPA innovation impact military strategy and international security This book will be of much interest to students of airpower drone warfare military and strategic studies security studies and IR

**The Politics of Climate Change Knowledge** Nowrin Tabassum, 2022-03-03 This book addresses political knowledge of climate change and its relation to labelling people affected by climate change either as climate refugees or as climate change induced displaced people or migrants By questioning the knowledge of climate change and subsequent labelling of people this book will spark debate in studies of global climate politics and transnational policy networks Rather than considering the issue of climate change as a given phenomenon the author explores how the politicized knowledge of climate change has been produced in international negotiations and how that knowledge is transmitted from global forums to local country levels via climate change action plans and resilience projects This book introduces the concept of multi scalar knowledge brokers MKBs individual actors who work at multiple levels local national and international to transmit the knowledge of climate change from global level to local level The author uses the primary case study of Bangladesh to demonstrate how the dominant actors in global climate politics the Intergovernmental Panel on Climate Change IPCC the United Nations Framework Convention on Climate Change UNFCCC and the World Bank as well as the USA and the UK interact with the government and local NGOs in Bangladesh regarding transmitting the knowledge of climate change labelling the uprooted people and implementing resilience projects This book will be of interest to students scholars and practitioners of international relations environmental politics climate change studies political ecology political geography and migration and displacement studies The Open Access version of this book available at [www.taylorfrancis.com](http://www.taylorfrancis.com) has been made available under a Creative Commons Attribution Non Commercial

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**Gender and Climate Change** Joane Nagel, 2015-09-25 Does gender matter in global climate change This timely and provocative book takes readers on a guided tour of basic climate science then holds up a gender lens to find out what has been overlooked in popular discussion research and policy debates We see that around the world more women than men die in climate related natural disasters the history of science and war are intimately interwoven masculine occupations and preoccupations and conservative men and their interests drive the climate change denial machine We also see that climate policymakers who embrace big science approaches and solutions to climate change are predominantly male with an ideology of perpetual economic growth and an agenda that marginalizes the interests of women and developing economies The book uses vivid case studies to highlight the sometimes surprising differential gendered impacts of climate changes *Ethical Values and the Integrity of the Climate Change Regime* Hugh Breakey, Vesselin Popovski, 2016-05-23 This book investigates the ethical values that inform the global carbon integrity system and reflects on alternative norms that could or should do so The global carbon integrity system comprises the emerging international architecture being built to respond to the climate change This architecture can be understood as an integrity system an inter related set of institutions governance arrangements regulations and practices that work to ensure the system performs its role faithfully and effectively This volume investigates the ways ethical values impact on where and how the integrity system works where it fails and how it can be improved With a wide array of perspectives across many disciplines including ethicists philosophers lawyers governance experts and political theorists the chapters seek to explore the positive values driving the global climate change processes to offer an understanding of the motivations justifying the creation of the regime and the way that social norms impact upon the operation of the integrity system The collection focuses on the nexus between ideal ethics and real world implementation through institutions and laws The book will be of interest to policy makers climate change experts carbon taxation regulators academics legal practitioners and researchers

**This Changes Everything** Naomi Klein, 2015-08-04 Explains why the environmental crisis should lead to an abandonment of free market ideologies and current political systems arguing that a massive reduction of greenhouse emissions may offer a best chance for correcting problems *Turn Down the Heat* World Bank Publications, 2014-11-20 A Report for the World Bank by the Potsdam Institute for Climate Impact Research and Analytics

**Handbook of Quality Assurance for University Teaching** Roger Ellis, Elaine Hogard, 2018-07-03 This practical and authoritative handbook provides a comprehensive overview of the issues and approaches to assuring quality in university teaching Including contributions from major international figures the book contains a wealth of ideas and practical advice to help universities commit to quality in teaching and offers insights into how the topics raised can be directly applied The book initially identifies some of the key issues surrounding the topic such as the evidence based identification of teaching quality the training of university lecturers and faculty external and internal quality



assurance the tension between professional autonomy and governmental regulation and the involvement of students in developing quality It then moves on to present ideas and initiatives to address these problems tackling the subject through four sections Assuring Quality questioning what quality assurance means and how it might be practised Identifying Quality examining what knowledge exists at present and how it might be further researched Developing Quality investigating the development of staff through teacher training and appraisal Case Studies of Quality Assurance reviewing six case studies of quality assurance in a range of contrasting subjects including the professional subjects of Medicine Nursing and Teacher Training which are also addressed systemically in the first section Full of practical advice Handbook of Quality Assurance for University Teaching is an invaluable and unique resource for Faculty Subject Leaders University Administrators and Quality Assessors

Fragile World William T. Cavanaugh, 2018-05-22 In *Fragile World Ecology and the Church* scholars and activists from Christian communities as far flung as Honduras the Philippines Colombia and Kenya present a global angle on the global ecological crisis in both its material and spiritual senses and offer Catholic resources for responding to it This volume explores the deep interconnections for better and for worse between the global North and the global South and analyzes the relationship among the physical environment human society culture theology and economics the integral ecology described by Pope Francis in *Laudato Si* Integral ecology demands that we think deeply about humans and the physical environment but also about the God who both created the world and sustains it in being At its root the ecological crisis is a theological crisis not only in the way that humans regard creation and their place in it but in the way that humans think about God For Pope Francis in *Laudato Si* the root of the crisis is that we humans have tried to put ourselves in God's place According to Pope Francis therefore A fragile world entrusted by God to human care challenges us to devise intelligent ways of directing developing and limiting our power

**Security in Vehicular Networks** Leila Benarous, Salim Batim, Abdelhamid Mellouk, 2022-09-14 Vehicular networks were first developed to ensure safe driving and to extend the Internet to the road However we can now see that the ability of vehicles to engage in cyber activity may result in tracking and privacy violations through the interception of messages which are frequently exchanged on road This book serves as a guide for students developers and researchers who are interested in vehicular networks and the associated security and privacy issues It facilitates the understanding of the technologies used and their various types highlighting the importance of privacy and security issues and the direct impact they have on the safety of their users It also explains various solutions and proposals to protect location and identity privacy including two anonymous authentication methods that preserve identity privacy and a total of five schemes that preserve location privacy in the vehicular ad hoc networks and the cloud enabled internet of vehicles respectively

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