

## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### 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 (1.1-1.5) on your folio paper. Example 1.6. D.

- 1.1 A positively charged object has:
  - A. An attraction to metal.
  - B. An attraction to all matter.
  - C. An attraction to electrons.
  - D. A repulsion of electrons.
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
  - A. Radio waves
  - B. X-rays
  - C. Microwaves
  - D. Visible light
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
  - A. Gases
  - B. Liquids
  - C. Solids
  - D. Vacuum
- 1.4 The SI unit for charge is the ...
  - A. Coulomb
  - B. Volt
  - C. Ohm
  - D. Ampere
- 1.5 The relationship between voltage and work done is:
  - A. Current
  - B. Directly proportional
  - C. Inversely proportional
  - D. Indirectly proportional

[10]

### QUESTION 2

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



- 2.1 Define a **pulse**. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE** or **LONGITUDINAL**. (1)
- 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 Write down the frequency of the wave. (1)
  - 2.4.3 Calculate the speed of the wave. (3)
- 2.5 If the waves were sent towards each other and allowed to collide:
  - 2.5.1 Write down what happens to the waves. (2)
  - 2.5.2 Describe what happens to the waves. (2)

[10]

### QUESTION 3

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



- 3.1.1 Point to which A, B and C?

(2)

# Physical Science Paperfor March 2014

**LL Leslie**



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

*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's 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.

*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, 2021-02-24. 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

**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

*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

**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

**Keeping Women in Science** Kate White, 2015-01-05 Keeping Women in Science examines the careers of women and men at a large Australian research institute and the challenges that women with or without children experience often resulting from direct and indirect discrimination and being positioned as outsiders The research found a huge generational change between the Baby Boomers the current science leaders and Gen X and Gen Ys Younger women and men reject the traditional model of a successful scientist a single male for whom science is like a religious vocation Instead they seek new models for doing science that support dual careers work flexibility and work life balance

**Chemical News and Journal of Physical Science** ,1870 *The Chemical News and Journal of Physical Science* ,1911 **Cross-Border Management** Rongxing Guo, 2015-01-05 This book presents a new approach to management in an increasingly interactive world In this context the use of the word new has two meanings The first relates to a new definition of borders which are natural institutional

functional or mixed the second concerns the fact that the book applies and where necessary develops analytical tools methods and models that are different from those used in other similar books The objectives of this book are to clarify whether existing management theories and methods can be effectively applied in an entity which can be defined as a sovereign country a region a community a culture or a firm as the latter increasingly interacts with the rest of the world to develop qualitative and quantitative methods to help leaders make optimal decisions for their entity and at the same time to maximize the positive or minimize the negative effects of those decisions on the rest of the world and to design workable cross border cooperation plans and conflict management schemes that allow policy makers to better cope with the challenges and problems posed by our increasingly interactive world

**Research Handbook on EU Energy Law and Policy** Rafael Leal-Arcas, Jan Wouters, 2017-10-27 This authoritative Research Handbook presents for the first time a comprehensive overview of the most important research and latest trends in EU energy law and policy It offers high quality original contributions that provide state of the art research in this rapidly evolving area situated in the broader context of international economic law and governance

**Heteromation, and Other Stories of Computing and Capitalism** Hamid R. Ekbia, Bonnie A. Nardi, 2017-05-04 An exploration of a new division of labor between machines and humans in which people provide value to the economy with little or no compensation The computerization of the economy and everyday life has transformed the division of labor between humans and machines shifting many people into work that is hidden poorly compensated or accepted as part of being a user of digital technology Through our clicks and swipes logins and profiles emails and posts we are more or less willingly participating in digital activities that yield economic value to others but little or no return to us Hamid Ekbia and Bonnie Nardi call this kind of participation the extraction of economic value from low cost or free labor in computer mediated networks heteromation In this book they explore the social and technological processes through which economic value is extracted from digitally mediated work the nature of the value created and what prompts people to participate in the process Arguing that heteromation is a new logic of capital accumulation Ekbia and Nardi consider different kinds of heteromated labor communicative labor seen in user generated content on social media cognitive labor including microwork and self service creative labor from gaming environments to literary productions emotional labor often hidden within paid jobs and organizing labor made up of collaborative groups such as citizen scientists Ekbia and Nardi then offer a utopian vision heteromation refigured to bring end users more fully into the prosperity of capitalism

**International Climate Change Law** Daniel Bodansky, Jutta Brunnée, Lavanya Rajamani, 2017-06-08 This textbook by three experts in the field provides a comprehensive overview of international climate change law Climate change is one of the fundamental challenges facing the world today and is the cause of significant international concern In response states have created an international climate regime The treaties that comprise the regime the 1992 United Nations Framework Convention on Climate Change the 1997 Kyoto Protocol and the 2015 Paris Agreement establish a system of

governance to address climate change and its impacts This book provides a clear analytical guide to the climate regime as well as other relevant international legal rules The book begins by locating international climate change law within the broader context of international law and international environmental law It considers the evolution of the international climate change regime and the process of law making that has led to it It examines the key provisions of the Framework Convention the Kyoto Protocol and the Paris Agreement It analyses the principles and obligations that underpin the climate regime as well as the elaborate institutional and governance architecture that has been created at successive international conferences to develop commitments and promote transparency and compliance The final two chapters address the polycentric nature of international climate change law as well as the intersections of international climate change law with other areas of international regulation This book is an essential introduction to international climate change law for students scholars and negotiators

**Science Policies and Twentieth-Century Dictatorships** Amparo Gómez, Antonio Fco. Canales, Brian Balmer, 2016-03-03

Making a fresh contribution to the political history of science this book explores the connections between the science policies of three countries that each experienced considerable political upheaval in the twentieth century Spain Italy and Argentina By focussing on these three countries the contributors are able to present case studies that highlight the characteristics and specificities of the democratic and dictatorial political processes involved in the production of science and technology The focus on dictatorship presents the opportunity to expand our knowledge beyond the more extensive literature about science in Nazi Germany and Stalinist USSR about the level of political involvement of scientists in non democratic contexts and to what extent they act as politicians in different contexts Key topics covered include the new forms of organization and institutionalization of science in the twentieth century the involvement of scientific communities in the governance of science and its institutions the role of ideology in scientific development the scientific practices adopted by scientific communities in different contexts and the characteristics of science and technology produced in these contexts

Introduction to Energy and Climate Julie Kerr, 2017-08-09

The purpose of this textbook is to provide a well rounded working knowledge of both climate change and environmental sustainability for a wide range of students Students will learn core concepts and methods to analyze energy and environmental impacts will understand what is changing the earth s climate and what that means for life on earth now and in the future They will also have a firm understanding of what energy is and how it can be used This text intends to develop working knowledge of these topics with both technical and social implications Students will find in one volume the integration and careful treatment of climate energy and sustainability

**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 No Derivatives 4.0 license Thanks to the support of libraries working with Knowledge Unlatched [www.knowledgeunlatched.org](http://www.knowledgeunlatched.org) **Bundled weather index**

**insurance pilot for drought-affected areas in Sri Lanka** Aheeyar, Mohamed, Samarakoon, Kalani, de Silva,

Sanjiv, 2021-12-20

**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 *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      *Advances in Manufacturing Technology XXXVI* Andrew Thomas, Lyndon Murphy, Wyn Morris, Vincenzo Dispenza, David Jones, 2023-12-15 Like many other fields the area of manufacturing has advanced massively since the onset of the technological revolution brought about by advances in computing and smart technologies and with the accelerating globalisation of manufacturing in the 21st century the urgent need to keep pace has produced further rapid advancements in technology research and innovation This book presents the proceedings of ICMR 2023 the 20th International Conference on Manufacturing Research held from 6-8 September 2023 in Aberystwyth Wales UK This annual conference is a friendly and inclusive platform for a broad community of researchers with the common goal of developing and managing the technologies and operations key to manufacturing As well as bringing together researchers academics and industrialists to share their knowledge and experience the conference also serves to promote manufacturing engineering education training and research Reflecting the context of Industry 4.0 and beyond the theme of the 2023 conference is sustainability in smart manufacturing environments More than 68 papers were submitted for the conference from which the 33 papers presented here were selected and accepted after a rigorous peer review process an acceptance rate of 49% The papers are grouped into 8 sections operations and supply chain management manufacturing technology manufacturing and process modeling robotics and simulation systems supply chain systems process characterization and simulation operations and supply chain management and design and prototyping Providing a wide ranging overview of advances in the field the book will be of interest to all those working in manufacturing research

## Reviewing **Physical Science Paperfor March 2014**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Physical Science Paperfor March 2014**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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