

GRADE 11 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 (1.1-1.6) on your folio paper. Example 1.7, D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A. Mass of X is greater than mass of Y.
B. Acceleration of X is greater than acceleration of Y.
C. Mass of Y is greater than mass of X.
D. The slope of the line of X is greater than the slope of the line of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A car moving with a constant speed.
B. When the car starts from rest and starts to move with a constant acceleration.
C. A car moving with a constant speed in a straight line.
D. A car moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not experiencing any forces.
B. An object is moving at a constant velocity.
C. An object is not experiencing any forces.
D. An object is not experiencing any forces.
- 1.4 The inertia of an object...
- A. Is a measure of its mass.
B. Is a measure of its speed.
C. Is a measure of its acceleration.
D. Is a measure of its velocity.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (F_g) on the

surface of the Earth?

- A. r
B. $2r$
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too big.
D. The box is too small.

[14]

QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- 2.1 Draw the free-body diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Resultant of the components of P and Q horizontally. (4)
2.2.2 Resultant of the components of P and Q vertically. (4)
2.2.3 Resultant of the horizontal components. (5)
2.2.4 Resultant of the vertical components. (5)
2.2.5 Resultant of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

Physical Science Paper March 2014

Annelies Wilder-Smith

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Physical Science Paper 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 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 offers updated information on the technologies covered in this text as well as links to other resources

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

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

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

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.

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 *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

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

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

Using Formative Assessment to Enhance Learning, Achievement, and Academic Self-Regulation Heidi L. Andrade, Margaret Heritage, 2017-07-20 There is convincing evidence that carefully applied classroom assessments can promote student learning and academic self regulation These assessments include but are not limited to conversations with students diagnostic test items and co created rubrics used to

guide feedback for students themselves and their peers Writing with the practical constraints of teaching in mind Andrade and Heritage present a concise resource to help pre and in service teachers maximize the positive impacts of classroom assessment on teaching Using Formative Assessment to Enhance Learning Achievement and Academic Self Regulation translates work from leading specialists and explains how to use assessment to improve learning by linking learning theory to formative assessment processes Sections on goal setting progress monitoring interpreting feedback and revision of goal setting make this a timely addition to assessment courses

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

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

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

Systems Engineering and Analysis of Electro-Optical and Infrared Systems

William Wolfgang Arrasmith, 2018-10-08 Electro optical and infrared systems are fundamental in the military medical commercial industrial and private sectors Systems Engineering and Analysis of Electro Optical and Infrared Systems integrates solid fundamental systems engineering principles methods and techniques with the technical focus of contemporary electro optical and infrared optics imaging and detection methodologies and systems The book provides a running case study throughout that illustrates concepts and applies topics learned It explores the benefits of a solid systems engineering oriented approach focused on electro optical and infrared systems This book covers fundamental systems engineering principles as applied to optical systems demonstrating how modern day systems engineering methods tools and techniques can help you to optimally develop support and dispose of complex optical systems It introduces contemporary systems development paradigms such as model based systems engineering agile development enterprise architecture methods systems of systems family of systems rapid prototyping and more It focuses on the connection between the high level systems engineering methodologies and detailed optical analytical methods to analyze and understand optical systems performance capabilities Organized into three distinct sections the book covers modern fundamental and general systems engineering principles methods and techniques needed throughout an optical system s development lifecycle SDLC optical systems building blocks that provide necessary optical systems analysis methods techniques and technical fundamentals and an integrated case study that unites these two areas It provides enough theory analytical content and technical depth that you will be able to analyze optical systems from both a systems and technical perspective

Heteromation, and Other Stories of Computing and Capitalism Hamid R. Ekbias, 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 Ekbias 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 Ekbias 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 Ekbias and Nardi then offer a utopian vision heteromation refigured to bring end users more fully into the prosperity of capitalism

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 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

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