



## 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. a negative electric field
  - B. an electric field of positive
  - C. an electric field of negative
  - D. an electric field of positive
- 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. Water
  - C. Air
  - D. Steel
- 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. Directly proportional
  - C. Inversely proportional
  - D. Indirectly proportional

[10]

### QUESTION 2

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

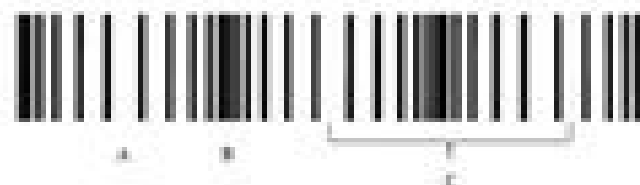


- 2.1 Define a pulse. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For wave Q:
  - 2.4.1 What is the magnitude of its wavelength in metres? (1)
  - 2.4.2 What is the frequency of the pulse? (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 What is the name of part A? (1)

(1)

# Physical Science Memorandum Paper Exemplar 2014

**Judd E. Hollander**



## **Physical Science Memorandum Paper Exemplar 2014:**

**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 **Force Multiplying Technologies for Logistics Support to Military Operations** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Force Multiplying Technologies for Logistics Support to Military Operations, 2014-12-15 The mission of the United States Army is to fight and win our nation's wars by providing prompt sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain them while they are engaged Logistics provides the backbone for Army combat operations Without fuel ammunition rations and other supplies the Army would grind to a halt The U S military must be prepared to fight anywhere on the globe and in an era of coalition warfare to logistically support its allies While aircraft can move large amounts of supplies the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield As the wars in Afghanistan and Iraq have shown the costs of convoying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases the challenge of logistics grows even larger No matter how the nature of battle develops logistics will remain a key factor Force Multiplying Technologies for Logistics Support to Military Operations explores Army logistics in a global complex environment that includes the increasing use of antiaccess and area denial tactics and technologies by potential adversaries This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need make maintenance more efficient improve inter and intratheater mobility and improve near real time in transit visibility Force Multiplying Technologies also explores options for the Army to operate with the other services and improve its support of Special Operations Forces This report provides a logistics centric research and development investment strategy and illustrative

examples of how improved logistics could look in the future      **Breaking Point** Rebecca Schwartz Greene,2023-01-03  
WINNER SOCIETY FOR MILITARY HISTORY DISTINGUISHED BOOK AWARDS FIRST BOOK This book informs the public for the first time about the impact of American psychiatry on soldiers during World War II Breaking Point is the first in depth history of American psychiatry in World War II Drawn from unpublished primary documents oral histories and the author's personal interviews and correspondence over years with key psychiatric and military policymakers it begins with Franklin Roosevelt's endorsement of a universal Selective Service psychiatric examination followed by Army and Navy pre and post induction examinations Ultimately 2.5 million men and women were rejected or discharged from military service on neuropsychiatric grounds Never before or since has the United States engaged in such a program In designing Selective Service Medical Circular No 1 psychiatrist Harry Stack Sullivan assumed psychiatrists could predict who might break down or falter in military service or even in civilian life thereafter While many American and European psychiatrists questioned this belief and huge numbers of American psychiatric casualties soon raised questions about screening's validity psychiatric and military leaders persisted in 1942 and 1943 in endorsing ever tougher screening and little else Soon families complained of fathers and teens being drafted instead of being identified as psychiatric 4Fs and Blacks and Native Americans among others complained of bias A frustrated General George S Patton famously slapped two malingering neuropsychiatric patients in Sicily a sentiment shared by Marshall and Eisenhower though they favored a tamer style Yet psychiatric rejections, evacuations and discharges mounted While psychiatrist Roy Grinker and a few others treated soldiers close to the front in Tunisia in early 1943 this was the exception But as demand for manpower soared and psychiatrists finally went to the field and saw that combat itself not predisposition precipitated breakdown leading military psychiatrists switched their emphasis from screening to prevention and treatment But this switch was too little too late and slowed by a year long series of Inspector General investigations even while numbers of psychiatric casualties soared Ironically despite and even partly because of psychiatrists' wartime performance plus the emotional toll of war postwar America soon witnessed a dramatic growth in numbers popularity and influence of the profession culminating in the National Mental Health Act 1946 But veterans with PTSD not recognized until 1980 were largely neglected      **Strengthening the Disaster Resilience of the Academic Biomedical Research Community** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Health and Medicine Division, Institute for Laboratory Animal Research, Board on Earth Sciences and Resources, Board on Health Sciences Policy, Committee on Strengthening the Disaster Resilience of Academic Research Communities, 2017-10-20 The academic biomedical research community is a hub of employment economic productivity and scientific progress Academic research institutions are drivers of economic development in their local and state economies and by extension the national economy Beyond the economic input that the academic biomedical research community both receives and provides it generates knowledge that in turn affects society in myriad ways The United States has experienced

and continues to face the threat of disasters and like all entities the academic biomedical research community can be affected Recent disasters from hurricanes to cyber attacks and their consequences have shown that the investments of the federal government and of the many other entities that sponsor academic research are not uniformly secure First and foremost events that damage biomedical laboratories and the institutions that house them can have impacts on the safety and well being of humans and research animals Furthermore disasters can affect career trajectories scientific progress and financial stability at the individual and institutional levels Strengthening the Disaster Resilience of the Academic Biomedical Research Community offers recommendations and guidance to enhance the disaster resilience of the academic biomedical research community with a special focus on the potential actions researchers academic research institutions and research sponsors can take to mitigate the impact of future disasters

*Physics Briefs* ,1985      One Nation Under Gold James Ledbetter,2017-06-13 One Nation Under Gold examines the countervailing forces that have long since divided America whether gold should be a repository of hope or a damaging delusion that has long since derailed the rational investor Worshipped by Tea Party politicians but loathed by sane economists gold has historically influenced American monetary policy and has exerted an often outsized influence on the national psyche for centuries Now acclaimed business writer James Ledbetter explores the tumultuous history and larger than life personalities from George Washington to Richard Nixon behind America s volatile relationship to this hallowed metal and investigates what this enduring obsession reveals about the American identity Exhaustively researched and expertly woven One Nation Under Gold begins with the nation s founding in the 1770s when the new republic erupted with bitter debates over the implementation of paper currency in lieu of metal coins Concerned that the colonies thirteen separate currencies would only lead to confusion and chaos some Founding Fathers believed that a national currency would not only unify the fledgling nation but provide a perfect solution for a country that was believed to be lacking in natural silver and gold resources Animating the Wild West economy of the nineteenth century with searing insights Ledbetter brings to vivid life the actions of Whig president Andrew Jackson one of gold s most passionate advocates whose vehement protest against a standardized national currency would precipitate the nation s first feverish gold rush Even after the establishment of a national paper currency the virulent political divisions continued reaching unprecedented heights at the Democratic National Convention in 1896 when presidential aspirant William Jennings Bryan delivered the legendary Cross of Gold speech that electrified an entire convention floor stoking the fears of his agrarian supporters While Bryan never amassed a wide enough constituency to propel his cause into the White House America s stubborn attachment to gold persisted wreaking so much havoc that FDR in order to help rescue the moribund Depression economy ordered a ban on private ownership of gold in 1933 In fact so entrenched was the belief that gold should uphold the almighty dollar it was not until 1973 that Richard Nixon ordered that the dollar be delinked from any relation to gold completely overhauling international economic policy and cementing the dollar s global significance More

intriguing is the fact that America's exuberant fascination with gold has continued long after Nixon's historic decree as in the profusion of late night television ads that appeal to goldbug speculators that proliferate even into the present One Nation Under Gold reveals as much about American economic history as it does about the sectional divisions that continue to cleave our nation ultimately becoming a unique history about economic irrationality and its influence on the American psyche

*Understanding and Reducing Landslide Disaster Risk* Binod Tiwari, Kyoji Sassa, Peter T. Bobrowsky, Kaoru Takara, 2020-12-22 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the followings Five keynote lectures Recent development in physical modeling of landslides Recent development in numerical modeling of landslides Recent development in soil and rock testing techniques application and analysis methods Recent advancements in the methods of slope stability and deformation analyses Recent development in disaster risk assessment Prof Binod Tiwari is a Vice President of the International Consortium on Landslides ICL He is the Associate Vice President for research and sponsored project and Professor of civil and environmental engineering at the California State University Fullerton California USA Prof Kyoji Sassa is the Founding President and the Secretary General of the International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Peter Bobrowsky is the President of the International Consortium on Landslides He is a Senior Scientist of Geological Survey of Canada Ottawa Canada Prof Kaoru Takara is the Executive Director of the International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University

*Fifty Years of the Wilson Cycle Concept in Plate Tectonics* R.W. Wilson, G.A. Houseman, K.J.W. McCaffrey, A.G. Doré, S.J.H. Buiter, 2019-11-11 Fifty years ago Tuzo Wilson published his paper asking Did the Atlantic close and then re open This led to the Wilson Cycle concept in which the repeated opening and closing of ocean basins along old orogenic belts is a key process in the assembly and breakup of supercontinents The Wilson Cycle underlies much of what we know about the geological evolution of the Earth and its lithosphere and will no doubt continue to be developed as we gain more understanding of the physical processes that control mantle convection plate tectonics and as more data become available from currently less accessible regions This volume includes both thematic and review papers covering various aspects of the Wilson Cycle concept Thematic sections include 1 the Classic Wilson v Supercontinent Cycles 2 Mantle Dynamics in the Wilson Cycle 3 Tectonic Inheritance in the Lithosphere 4 Revisiting Tuzo's question on the Atlantic 5 Opening and Closing of Oceans and 6 Cratonic Basins and their place in the Wilson Cycle

*Advances in Human Aspects of Transportation: Part II* Neville Stanton, Steven Landry, Giuseppe Di Bucchianico, Andrea Vallicelli, 2021-07-19 Human Factors and Ergonomics have made a considerable contribution to the research design development operation and analysis of transportation systems which includes road and rail vehicles and their complementary infrastructure aviation and maritime

transportation This book presents recent advances in the Human Factors aspects of Transportation These advances include accident analysis automation of vehicles comfort distraction of drivers understanding of distraction and how to avoid it environmental concerns in vehicle systems design intelligent transport systems methodological developments new systems and technology observational and case studies safety situation awareness skill development and training warnings and workload This book brings together the most recent human factors work in the transportation domain including empirical research human performance and other types of modeling analysis and development The issues facing engineers scientists and other practitioners of human factors in transportation research are becoming more challenging and more critical The common theme across these sections is that they deal with the intersection of the human and the system Moreover many of the chapter topics cross section boundaries for instance by focusing on function allocation in NextGen or on the safety benefits of a tower controller tool This is in keeping with the systemic nature of the problems facing human factors experts in rail and road aviation and maritime research it is becoming increasingly important to view problems not as isolated issues that can be extracted from the system environment but as embedded issues that can only be understood as a part of an overall system      Sport and Exercise Psychology Julia Schöler, Mirko Wegner, Henning Plessner, Robert C.

Eklund, 2023-02-25 This textbook covers topics in sport and exercise psychology for students of psychology and sport science as well as for sport practitioners who want to understand topics in sport psychology in more detail and depth The book is divided into two main parts Theory and Application The first part covers the theoretical facets of sport and exercise psychology and the close link between theory and practice divided into the sub disciplines of psychology cognition motivation emotion personality and development and social processes The second part focuses on the applications of sport and exercise psychology in the context of performance and health With contributions from scholars across the globe the book offers an international and timely perspective on the key fundamentals of sport psychology Taken together these chapters provide a challenging yet accessible overview of the larger field of sport and exercise psychology This book is suitable for readers at different levels of competence supported with didactic elements learning objectives and learning control questions to find the right learning level      *Roots Reloaded. Culture, Identity and Social Development in the Digital Age* Martin A. M.

Gansinger, Ayman Kole, 2016-07-21 This edited volume is designed to explore different perspectives of culture identity and social development using the impact of the digital age as a common thread aiming at interdisciplinary audiences Cases of communities and individuals using new technology as a tool to preserve and explore their cultural heritage alongside new media as a source for social orientation ranging from language acquisition to health related issues will be covered Therefore aspects such as Art and Cultural Studies Media and Communication Behavioral Science Psychology Philosophy and innovative approaches used by creative individuals are included From the Aboriginal tribes of Australia to the Maoris of New Zealand to the mystical teachings of Sufi brotherhoods the significance of the oral and written traditions and their current

relation to online activities shall be discussed in the opening article The book continues with a closer look at obesity awareness support groups and their impact on social media Facebook usage in language learning context smartphone addiction and internet dependency as well as online media reporting of controversial ethical issues      **Academic Librarianship Today** Todd Gilman, 2017-02-02 Intended for use by both librarians and students in LIS programs Academic Librarianship Today is the most current comprehensive overview of the field available today Key features include Each chapter was commissioned specifically for this new book and the authors are highly regarded academic librarians or library school faculty or both Cutting edge topics such as open access copyright digital curation and preservation emerging technologies new roles for academic librarians cooperative collection development and resource sharing and patron driven acquisitions are explored in depth Each chapter ends with thought provoking questions for discussion and carefully constructed assignments that faculty can assign or adapt for their courses The book begins with Gilman's introduction an overview that briefly synthesizes the contents of the contributors' chapters by highlighting major themes The main part of the book is organized into three parts The Academic Library Landscape Today Academic Librarians and Services Today and Changing Priorities New Directions      *Milton Friedman* Robert A. Cord, J. Daniel Hammond, 2016-05-20 Milton Friedman is widely regarded as one of the most influential economists of the twentieth century Although he made many important contributions to both economic theory and policy most clearly demonstrated by his development of and support for monetarism he was also active in various spheres of public policy where he more often than not pursued his championing of the free market and liberty This volume assesses the importance of the full range of Friedman's ideas from his work on methodology in economics his highly innovative consumption theory and his extensive research on monetary economics to his views on contentious social and political issues such as education conscription and drugs It also presents personal recollections of Friedman by some of those who knew him both as students and colleagues and offers new evidence on Friedman's interactions with other noted economists including George Stigler and Lionel Robbins The volume provides readers with an up to date account of Friedman's work and continuing influence and will help to inform and stimulate further research across a variety of areas including macroeconomics the history of economic thought as well as the development and different uses of public policy With contributions from a stellar cast this book will be invaluable to academics and students alike      A Perilous Progress Michael Alan Bernstein, 2014-08-12 The economics profession in twentieth century America began as a humble quest to understand the wealth of nations It grew into a profession of immense public prestige and now suffers a strangely withered public purpose Michael Bernstein portrays a profession that has ended up repudiating the state that nurtured it ignoring distributive justice and disproportionately privileging private desires in the study of economic life Intellectual introversion has robbed it the very public influence it coveted and cultivated for so long With wit and irony he examines how a community of experts now identified with uncritical celebration of free market virtues was itself



shaped dramatically so by government and collective action In arresting and provocative detail Bernstein describes economists fitful efforts to sway a state apparatus where values and goals could seldom remain separate from means and technique and how their vocation was ultimately humbled by government itself Replete with novel research findings his work also analyzes the historical peculiarities that led the profession to a key role in the contemporary backlash against federal initiatives dating from the 1930s to reform the nation s economic and social life Interestingly enough scholars have largely overlooked the history that has shaped this profession An economist by training Bernstein brings a historian s sensibilities to his narrative utilizing extensive archival research to reveal unspoken presumptions that through the agency of economists themselves have come to mold and define and sometimes actually deform public discourse This book offers important even troubling insights to readers interested in the modern economic and political history of the United States and perplexed by recent trends in public policy debate It also complements a growing literature on the history of the social sciences Sure to have a lasting impact on its field *A Perilous Progress* represents an extraordinary contribution of gritty empirical research and conceptual boldness of grand narrative breadth and profound analytical depth **Silence and Confessions** S.

Easton,2014-10-29 This book examines the treatment of suspects in interrogation and explores issues surrounding the right to silence Employing a socio legal approach it draws from empirical research in the social sciences including social psychology to understand the problem of obtaining reliable evidence during interrogation CERN Courier ,2014 **The**

**Battle against Anarchist Terrorism** Richard Bach Jensen,2014 The first global history of the secret diplomatic and police campaign against anarchist terrorism from 1880 to the 1920s *Resources in Education* ,1981-10 *Stress, Shock, and*

*Adaptation in the Twentieth Century* David Cantor,Edmund Ramsden,2014 This edited volume brings together leading scholars to explore the emergence of the stress concept and its ever changing definitions since the 1940s Stress is one of the most widely utilized medical concepts in modern society Originally used to describe physiological responses to trauma it is now applied in a variety of other fields and contexts such as in the constructionand expression of personal identity social relations building and engineering and the various complexities of the competitive capitalist economy In addition scientists and medical experts use the concept to explore the relationship between an ever increasing number of environmental stressors and the evolution of an expanding range of mental and chronic organic diseases such as hypertension gastric ulcers arthritis allergies and cancer Thisedited volume brings together leading scholars to explore the emergence and development of the stress concept and its definitions as they have changed over time It examines how stress and closely related concepts have been used to connect disciplines such as architecture ecology physiology psychiatry psychology public health urban planning and a range of social sciences its application in different settings such as the battlefield workplace clinic hospital and home and the advancement of techniques of stress management in a number of different national sociocultural and scientific locations Contributors Theodore M Brown David Cantor Otniel E Dror Rhodri Hayward Mark Jackson Robert G W

Kirk Junko Kitanaka Tulley Long Joseph Melling Edmund Ramsden Elizabeth Siegel Watkins Allan Young David Cantor is acting director Office of History National Institutes of Health Edmund Ramsden is Wellcome Trust University Award Research Fellow at the School of History Queen Mary University of London

**Islam, Law and the State in the Philippines** Tim Lindsey, Kerstin Steiner, 2025-05-06 This book investigates the development of Islam in the Philippines from a legal perspective investigating Islam through the lens of the institutions of Islamic law Drawing on original fieldwork including in Mindanao this comprehensive book covers a wide range of topics including Islamic leadership and authority mufti darul ifta and fatawa Islamic judges and dispute resolution in Islamic courts and alternative forms of dispute resolution legislative codification of Islamic law especially in private law marriage and divorce Islamic banking and finance and madrasahs and Islamic education The book also offers a comprehensive detailed and timely socio legal analysis of controversies relating to Islam and the long running conflict in the Southern Philippines as Moro communities struggle with the challenges of transition to the long awaited Bangsamoro Autonomous Region of Muslim Mindanao This is contextualised against the wider history and politics of the southern Philippines from pre colonial times to 2024 The authors offer a detailed and nuanced analysis based on primary documents as well as an account of the existing literature in the field The book greatly enhances understandings of the social political and historical context of current developments in Islam in the Philippines It will be of interest to researchers studying Islam and the administration of Islamic law Malay Muslim communities in Southeast Asia and the history and politics of the Philippines

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