

## GRADE 12 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 (1.1-1.7) on your folio paper. Example 1.8. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A Ethanol and butane  
 B Ethanol and propanoic acid  
 C Ethanol and propanal  
 D Ethanol and butanoic acid
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A A constant number of different ions are released.  
 B When a certain amount of acid is added to a given amount of metal, the rate of reaction is constant.  
 C An alkali solution reacts with a given amount of metal to form a certain amount of gas.  
 D An alkali solution reacts with a given amount of metal to form a certain amount of gas.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight because it is not touching the ground.  
 B An object is weightless because it is not touching the ground.  
 C An object is free of weight because it is not touching the ground.  
 D An object is free of weight because it is not touching the ground.
- 1.4 The inertia of an object...
- A is measured by its mass.  
 B is the resistance to change in its state of motion.  
 C is the resistance to change in its state of motion.  
 D is the resistance to change in its state of motion.

- 1.5 An astronaut has a weight  $E_E$  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 ( $E_E$ ) on the surface of the Earth?
- A  $r$   
 B  $2r$   
 C  $4r$   
 D  $8r$

- 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 smooth.  
 D The box is too rough.
- 1.7 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 smooth.  
 D The box is too rough.

[14]

### QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group of compound C and name the cation to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the:  
 2.3.1 IUPAC name of compound A. (2)  
 2.3.2 IUPAC name of compound B. (2)

# Physical Science 2015 March Memorandum

**Y Pai**



## **Physical Science 2015 March Memorandum:**

**United States Department of State Treaties in Force; A List of Treaties and Other International Agreements of the United States in Force on January 1, 2018** , *Treaties in Force* ,2016 **Treaties In Force: A List Of Treaties and Other International Agreements of the United States in Force on January 1, 2016** State Dept., Office of the Legal Adviser, Treaty Affairs Staff,2017-02-02 Treaties in Force is prepared by the Department of State for the purpose of providing information on treaties and other international agreements to which the United States has become a party and which are carried on the records of the Department of State as being in force as of its stated publication date January 1 2016 Treaties in Force is arranged in two sections Section 1 includes bilateral treaties and other international agreements listed by country or other international entity with subject headings under each entry Arrangements with territorial possessions of a country appear at the end of the entry for that country In some cases treaties and international agreements applicable to a territory prior to its independence are included in the entry for that country on the basis of its assumption of treaty obligations upon becoming independent as noted at the beginning of the entry for that country For convenience some treaties and agreements concluded with countries whose name or statehood status has changed continue to be listed under the name in use at the time the agreement was concluded if the title of the treaty or agreement has not been formally amended Section 2 lists multilateral treaties and other international agreements to which the United States is a party arranged by subject The depositary is the authoritative source for a current list of parties and information on other matters concerning the status of the agreement and status information often changes Information is provided on the depositary for the agreement in question and contact information including an Internet site is provided for the depositary where available Related products International Foreign Affairs resources collection can be found here <https://bookstore.gpo.gov/catalog/international-foreign-affairs>

**Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions** National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Board on Mathematical Sciences and Their Applications,Committee on Applied and Theoretical Statistics,Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions,2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions

such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

**Sustainability in the Gulf** Elie Azar, Mohamed Abdel Raouf, 2017-07-31 Sustainability is a topic of great interest today particularly for the Gulf Cooperation Council GCC countries which have witnessed very rapid economic and demographic growth over the past decade The observed growth has led to unsustainable consumption patterns of vital resources such as water energy and food highlighting the need for an urgent shift towards green growth and sustainable development strategies Sustainability in the Gulf covers the region's contemporary development challenges through the lens of the UN's Sustainable Development Goals SDGs which place sustainability at the centre of the solution to the current environmental economic and social imbalances facing GCC countries The book presents multiple analyses of Gulf specific sustainability topics examining the current status challenges and opportunities as well as identifying key lessons learned Innovative and practical policy recommendations are provided as well as new conceptual angles to the evolving academic debates on the post oil era in the Gulf Through chapters covering sector related studies as well as the socio economic dimensions of the sustainability paradigm this volume offers valuable insights into current research efforts made by the GCC states proposing a way forward based on lessons learned This is a valuable resource for students academics and researchers in the areas of Environmental Studies Political Economy and Economics of the GCC states

**A History of Scientific Journals** Aileen Fyfe, Noah Moxham, Julie McDougall-Waters, Camilla Mørk Røstvik, 2022-10-03 Modern scientific research has changed so much since Isaac Newton's day it is more professional collaborative and international with more complicated equipment and a more diverse community of researchers Yet the use of scientific journals to report share and store results is a thread that runs through the history of science from Newton's day to ours Scientific journals are now central to academic research and careers Their editorial and peer review processes act as a check on new claims and findings and researchers build their careers on the list of journal articles they have published The journal that reported Newton's optical experiments still exists First published in 1665 and now fully digital the Philosophical Transactions has carried papers by Charles Darwin Dorothy Hodgkin and Stephen Hawking It is now one of eleven journals published by the Royal Society of London Unrivalled insights from the Royal Society's comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing The editorial management business practices and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community At a time when we are

surrounded by calls to reform the academic publishing system it has never been more urgent that we understand its history

*The Growing Threat to Air Force Mission-Critical Electronics* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Air Force Studies Board, Committee on a Strategy for Acquiring Secure and Reliable Electronic Components for Air Force Weapon Systems, 2019-08-09 High performance electronics are key to the U S Air Force s USAF s ability to deliver lethal effects at the time and location of their choosing Additionally these electronic systems must be able to withstand not only the rigors of the battlefield but be able to perform the needed mission while under cyber and electronic warfare EW attack This requires a high degree of assurance that they are both physically reliable and resistant to adversary actions throughout their life cycle from design to sustainment In 2016 the National Academies of Sciences Engineering and Medicine convened a workshop titled Optimizing the Air Force Acquisition Strategy of Secure and Reliable Electronic Components and released a summary of the workshop This publication serves as a follow on to provide recommendations to the USAF acquisition community

**Pathways to Reform** Alexandra W. Logue, 2017-09-08 A personal account of the implementation of a controversial credit transfer program at the nation s third largest university Change is notoriously difficult in any large organization Institutions of higher education are no exception From 2010 to 2013 Alexandra Logue then chief academic officer of The City University of New York led a controversial reform initiative known as Pathways The program aimed to facilitate the transfer of credits among the university s nineteen constituent colleges in order to improve graduation rates a long recognized problem for public universities such as CUNY Hotly debated Pathways met with vociferous resistance from many faculty members drew the attention of local and national media and resulted in lengthy legal action In Pathways to Reform Logue the figure at the center of the maelstrom blends vivid personal narrative with an objective perspective to tell how this hard fought plan was successfully implemented at the third largest university in the United States Logue vividly illustrates why change does or does not take place in higher education and the professional and personal tolls exacted Looking through the lens of the Pathways program and factoring in key players she analyzes how governance structures and conflicting interests along with other institutional factors impede change which Logue shows is all too rare slow and costly In this environment she argues it is shared governance combined with a strong central decision making authority that best facilitates necessary reform Logue presents a compelling investigation of not only transfer policy but also power dynamics and university leadership Shedding light on the inner workings of one of the most important public institutions in the nation Pathways to Reform provides the first full account of how despite opposition a complex higher education initiative was realized All net royalties received by the author from sales of this book will be donated to The City University of New York to support undergraduate student financial aid

**Evaluating Police Uses of Force** Seth W. Stoughton, Jeffrey J. Noble, Geoffrey P. Alpert, 2021-02-01 Provides a critical understanding and evaluation of police tactics and the use of force Police violence has historically played an

important role in shaping public attitudes toward the government Community trust and confidence in policing have been undermined by the perception that officers are using force unnecessarily too frequently or in problematic ways The use of force or harm suffered by a community as a result of such force can also serve as a flashpoint a spark that ignites long simmering community hostility In *Evaluating Police Uses of Force* legal scholar Seth W Stoughton former deputy chief of police Jeffrey J Noble and distinguished criminologist Geoffrey P Alpert explore a critical but largely overlooked facet of the difficult and controversial issues of police violence and accountability how does society evaluate use of force incidents By leading readers through answers to this question from four different perspectives constitutional law state law administrative regulation and community expectations and by providing critical information about police tactics and force options that are implicated within those frameworks *Evaluating Police Uses of Force* helps situate readers within broader conversations about governmental accountability the role that police play in modern society and how officers should go about fulfilling their duties

**Beyond Control** James F. Barnett Jr., 2017-03-16 *Beyond Control* reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country's largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico *Beyond Control* traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi's move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi River's impending diversion the book's chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet *Beyond Control* is both a history and a close look at an inexorable living process happening now in the twenty first century

*Strange Stability* Assistant Professor of the History of Science Benjamin Wilson, Benjamin Wilson, 2025-11-18 Strategic stability is admired as the basis of arms control but the doctrine is not what is commonly assumed Benjamin Wilson shows that its early promoters falsely asserted their own objectivity and developed a logic that actually perpetuated the nuclear arms race benefiting the military industrial complex that commanded their loyalty

**Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations** Anna M. Doro-on, 2022-09-27 This book

provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations *Governing Medical Knowledge Commons* Brett M. Frischmann, Katherine J. Strandburg, Michael J. Madison, 2017-10-19 This book collects fifteen new case studies documenting successful knowledge and information sharing commons institutions for medical and health sciences innovation Also available as Open Access [Road Vehicle Automation 4](#) Gereon Meyer, Sven Beiker, 2017-06-28 This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation Its chapters have been written by researchers engineers and analysts from all around the globe Topics covered include public sector activities human factors and challenges ethical legal energy and technology perspectives vehicle systems development as well as transportation infrastructure and planning The book is based on the Automated Vehicles Symposium which took place in San Francisco California USA in July 2016 **Report** India. Ministry of External Affairs, 2015 *Economics and Climate Emergency* Barry Gills, Jamie Morgan, 2022-08-22 This book explores a series of connected themes focused on the role economics and other influential forms of theory and thinking have played in creating the current predicament and the scope for alternatives and how they might be framed Thirty years have passed since the inception of the United Nations Framework Convention on Climate Change UNFCCC and the beginning of policy on climate change Thirty wasted years To most politicians long term collective interest has been denominated in meaningless units of time a never and forever that has continually delayed action From complacency has come potential disaster and we are now living in a time of climate emergency and ecological breakdown The next decade is a pivotal period requiring fundamental change But numerous impediments remain Continual material energy and economic growth on a planetary scale are manifestly impossible and yet economic theory takes these as a given and political leadership and policy seem unwilling to accept brute reality Instead they offer a series of implausible commitments and pledges rooted in technofixes without addressing the fundamental drivers of

the problems the world faces The edited volume explores the issues and offers a variety of ways to think through the problems at hand from postgrowth degrowth and social ecological economics to policy assemblage and transversalism The chapters in this book were originally published in the journal *Globalizations* UNESCO Science Report

UNESCO,2021-06-18 **Transition Engineering** Susan Krumdieck,2019-09-19 Transition Engineering Building a Sustainable Future examines new strategies emerging in response to the mega issues of global climate change decline in world oil supply scarcity of key industrial minerals and local environmental constraints These issues pose challenges for organizations businesses and communities and engineers will need to begin developing ideas and projects to implement the transition of engineered systems This work presents a methodology for shifting away from unsustainable activities Teaching the Transition Engineering approach and methodology is the focus of the text and the concept is presented in a way that engineers can begin applying it in their work The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

**Spectral Invariants with Bulk, Quasi-Morphisms and Lagrangian Floer Theory** Kenji Fukaya,Yong-Geun Oh,Hiroshi Ohta,Kaoru Ono,2019-09-05 In this paper the authors first develop various enhancements of the theory of spectral invariants of Hamiltonian Floer homology and of Entov Polterovich theory of spectral symplectic quasi states and quasi morphisms by incorporating bulk deformations i.e deformations by ambient cycles of symplectic manifolds of the Floer homology and quantum cohomology Essentially the same kind of construction is independently carried out by Usher in a slightly less general context Then the authors explore various applications of these enhancements to the symplectic topology especially new construction of symplectic quasi states quasi morphisms and new Lagrangian intersection results on toric and non toric manifolds The most novel part of this paper is its use of open closed Gromov Witten Floer theory and its variant involving closed orbits of periodic Hamiltonian system to connect spectral invariants with bulk deformation symplectic quasi states quasi morphism to the Lagrangian Floer theory with bulk deformation The authors use this open closed Gromov Witten Floer theory to produce new examples Using the calculation of Lagrangian Floer cohomology with bulk they produce examples of compact symplectic manifolds which admits uncountably many independent quasi morphisms They also obtain a new intersection result for the Lagrangian submanifold in *Tunnel Visions* Michael Riordan,Lilian Hoddeson,Arienne W. Kolb,2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars

Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC s cancelation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American

## **Physical Science 2015 March Memorandum** Book Review: Unveiling the Power of Words

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