

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 ethanoic acid
 C Ethanol and propanoic acid
 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 A new element is formed and the original quantities of the elements are conserved.
 C An ionic substance is formed from a solid ionic compound.
 D An ionic compound is formed by neutralisation.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces.
 B An object is moving with a constant velocity.
 C An object is in a state of free fall.
 D An object is in a state of free fall.
- 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 $16r$

- 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

**Brett M. Frischmann, Katherine J.
Strandburg, Michael J. Madison**



Physical Science 2015 March Memorandum:

Treaties in Force ,2016 *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: 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> **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

Freedom's Laboratory Audra J. Wolfe,2020-08-04 The Cold War ended long ago but the language of science and freedom continues to shape public debates over the relationship between science and politics in the United States Scientists like to proclaim that science knows no borders Scientific researchers follow the evidence where it leads their conclusions free of prejudice or ideology But is that really the case In Freedom s Laboratory Audra J Wolfe shows how these ideas were tested to their limits in the high stakes propaganda battles of the Cold War Wolfe examines the role that scientists in concert with administrators and policymakers played in American cultural diplomacy after World War II During this period the engines of US propaganda promoted a vision of science that highlighted empiricism objectivity a commitment to pure research and internationalism Working both overtly and covertly wittingly and unwittingly with governmental and private organizations scientists attempted to decide what exactly they meant when they referred to scientific freedom or the US ideology More frequently however they defined American science merely as the opposite of Communist science Uncovering many startling episodes of the close relationship between the US government and private scientific groups Freedom s Laboratory is the first work to explore science s link to US propaganda and psychological warfare campaigns during the Cold War Closing in the present day with a discussion of the 2017 March for Science and the prospects for science and science diplomacy in the Trump era the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United 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

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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

Governing Medical Knowledge Commons Katherine J. Strandburg, Brett M. Frischmann, Michael J. Madison, 2017-10-12 Governing Medical Knowledge Commons makes three claims first evidence matters to innovation policymaking second evidence shows that self governing knowledge commons support effective innovation without prioritizing traditional intellectual property rights and third knowledge commons can succeed in the critical fields of medicine and health The editors knowledge commons framework adapts Elinor Ostrom s groundbreaking research on natural resource commons to the distinctive attributes of knowledge and information providing a systematic means for accumulating evidence about how knowledge commons succeed The editors previous volume Governing Knowledge Commons demonstrated the framework s power through case studies in a diverse range of areas Governing Medical Knowledge Commons provides fifteen new case studies of knowledge commons in which researchers medical professionals and patients generate improve and share innovations offering readers a practical introduction to the knowledge commons framework and a synthesis of conclusions and lessons The book is also available as Open Access

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* **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 *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 **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 **On Non-Generic Finite Subgroups of Exceptional Algebraic Groups** Alastair J. Litterick, 2018-05-29 The study of finite subgroups of a simple algebraic group G reduces in a sense to those which are almost simple If an almost simple subgroup of G has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of G then the subgroup is called

non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic

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

Crisis and Ontological Insecurity Filip Ejdus,2019-07-01 This book develops a novel way of thinking about crises in world politics By building on ontological security theory this work conceptualises critical situations as radical disjunctions that challenge the ability of collective agents to go on These ontological crises bring into the realm of discursive consciousness four fundamental questions related to existence finitude relations and autobiography In times of crisis collective agents such as states are particularly attached to their ontic spaces or spatial extensions of the self that cause collective identities to appear more firm and continuous These theoretical arguments are illustrated in a case study looking at Serbia s anxiety over the secession of Kosovo The author argues that Serbia s seemingly irrational and self harming policy vis vis Kosovo can be understood as a form of ontological self help It is a rational pursuit of biographical continuity and a healthy sense of self in the face of an ontological crisis triggered by the secession of a province that has been constructed as the ontic space of the Serbian nation since the late 19th century

Colour and Light in the Ocean Victor Martinez-Vicente,Astrid Bracher,Didier Ramon,Shubha Sathyendranath,Tiit Kutser,2020-03-26 CLEO publications in Frontiers in Marine Science Foreword Josef Aschbacher Director of ESA s Earth Observation Programmes Satellite data have drastically changed the view we have of the oceans Covering about 70% of Earth s surface oceans play a unique role for our planet and for our life but large areas remain unexplored and are difficult to reach Since the 1980s Earth orbiting satellites have helped to observe what is happening at the ocean surface Sensors like CZCS AVHRR SeaWiifs and MODIS provided the first ocean colour data from space Starting in 2002 ESA s Medium

Resolution Imaging Spectrometer MERIS on board the environmental satellite Envisat provided detailed information on phytoplankton biomass and concentrations of other matter in the global oceans These satellite observations laid the groundwork for studying the marine environment and how it responds to climate change and the research community has since delivered information on the variability of marine ecosystems Part of this work is reflected in this stunning collection of peer reviewed publications presented at the workshop Colour and Light in the Ocean from Earth Observation CLEO held at ESA s ESRIN site in Frascati Italy on 6 8 September 2016 The event attracted more than 160 participants from all over the world including remote sensing experts marine ecosystem modelers in situ observers and users of Earth observation data Scientifically the meeting covered applications in climate studies over primary productivity and ocean dynamics to pools of carbon and phytoplankton diversity at global and regional scales It also demonstrated the potential of Earth observation and its contribution to modern oceanography Looking to the future new satellites developed by ESA under the coordination of the European Commission will further our scientific and operational observations of the seas With Sentinel 3A in orbit and its twin Sentinel 3B following in 2017 there is a new category of data available for operational oceanographic applications and climate studies for years to come These data are free and easy to access by anyone interested Looking at the role of oceans in our daily lives I am sure that this collection of scientific excellence will be valued by scientists of today and will inspire the next generation to carry these ideas into the future

Department of Defense Appropriations United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,2016

Monthly Catalog of United States Government Publications ,1986 *Canine Olfaction Science and Law* Tadeusz Jezierski,John Ensminger,L. E.

Papet,2016-04-20 The value of the canine nose is well documented and working dogs are being utilized for their olfactory skills in an increasing number of fields Not only are dogs used by police security and the military but they are also now used in forensic science in medical detection of disease in calculating population trends of endangered species and e **Monthly Catalogue, United States Public Documents** ,1986-05

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