

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 electrons in the outer shell.
 B A constant number of protons in the nucleus.
 C An equal number of protons and electrons in the atom.
 D An equal number of protons and neutrons in the nucleus.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces.
 B An object is free of contact forces and is in a state of free fall.
 C An object is free of contact forces and is in a state of free fall.
 D An object is free of contact forces and is in a state of free fall.
- 1.4 The inertia of an object...
- A is a measure of its mass.
 B is a measure of its weight.
 C is a measure of its volume.
 D is a measure of its density.

- 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 big.
 D The box is too small.
- 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 big.
 D The box is too small.

[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 which is present in 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)

Memorandum 2014 February March Paper Physical Science

Hajime Koba



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This Changes Everything Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller *The Shock Doctrine* a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In *This Changes Everything* Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It's an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities re-imagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would-be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

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

Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S's still strong research oriented innovation system

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

Investing in Science Massimo Florio, 2019-10-15 A proposal for using cost benefit analysis to evaluate the socioeconomic impact of public investment in

large scientific projects Large particle accelerators outer space probes genomics platforms all are scientific enterprises managed through the new form of the research infrastructure in which communities of scientists collaborate across nations universities research institutions and disciplines Such large projects are often publicly funded with no accepted way to measure the benefits to society of these investments In this book Massimo Florio suggests the use of cost benefit analysis CBA to evaluate the socioeconomic impact of public investment in large and costly scientific projects The core concept of CBA of any infrastructure is to undertake the consistent intertemporal accounting of social welfare effects using the available information Florio develops a simple framework for such accounting in the research infrastructure context and then offers a systematic analysis of the benefits in terms of the social agents involved He measures the benefits to scientists students and postdoctoral researchers the effect on firms of knowledge spillovers the benefits to users of information technology and science based innovation the welfare effects on the general public of cultural services provided by RIs and the willingness of taxpayers to fund scientific knowledge creation Finally Florio shows how these costs and benefits can be expressed in the form of stochastic net present value and other summary indicators

Early Childhood Studies Jane Johnston,Lindy Nahmad-Williams,Ruby Oates,Val Wood,2018-02-16 This fully updated new edition offers a comprehensive accessible yet rigorous introduction to the study of Early Childhood that will add value to any Early Childhood Studies course at both foundation and degree level Addressing both care and education in the Early Years the book considers a range of multi disciplinary aspects of Early Childhood including health social educational psychological and sociological perspectives Early Childhood Studies engages the reader by providing real world examples that underpin theoretical perspectives and bring examples to life while encouraging practitioners to engage in reflective practice by considering their own similar experiences Key features include Engaging activities and case studies that bring theory to life Cutting edge research Practical tasks and advice with points for further reading End of chapter summaries Reflective Tasks and Study Skills boxes in each chapter Full colour illustrations throughout This core introductory textbook is an indispensable resource for Early Years students and professionals whatever their level of expertise or experience

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

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

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

For a meaningful artificial intelligence Cédric Villani, Yann Bonnet, marc schoenauer, charly berthet, francois levin, anne charlotte cornut, Bertrand Rondepierre, 2018-03-28

Free Market Environmentalism for the Next Generation T. Anderson, D. Leal, 2015-02-04 This book provides a vision for environmentalism s future based on the success of environmental entrepreneurs around the world The work provides the next generation of environmental market ideas and the chapters are co authored with young scholars and policy analysts who represent the next generation of environmental leaders

Governance of Marine Fisheries and Biodiversity Conservation Serge M. Garcia, Jake Rice, Anthony Charles, 2014-07-15 Governance of Marine Fisheries and Biodiversity Conservation explores governance of the world s oceans with a focus on the impacts of two inter connected but historically separate streams of governance one for fisheries the other for biodiversity conservation Chapters most co authored by leading experts from both streams investigate the interaction of these governance streams from ecological economic social and legal perspectives with

emphasis on policies institutions processes and outcomes on scales from the global to the local community and with coverage of a range of themes and regions of the world The book opens with chapters setting the historical context for the two marine governance streams and framing the book s exploration of whether as the streams increasingly interact there will be merger or collision convergence or co evolution The concluding chapter synthesizes the insights from throughout the book relative to the questions posed in the opening chapters It also draws conclusions about future needs and directions in the governance of marine fisheries and biodiversity vital to the future of the world s oceans With cutting edge chapters written by many leading international experts in fisheries management and biodiversity conservation and edited by three leading figures in this crucially important subject **Governance of Marine Fisheries and Biodiversity Conservation** is an essential purchase for fisheries scientists economists resource managers and policymakers and all those working in fields of biodiversity conservation marine ecology and coastal livelihoods Libraries in all universities and research establishments where environmental and or marine studies conservation ocean policy and law biological and life sciences and fisheries management are studied and taught should have copies of this most important book

Nonlinear Stability of Ekman Boundary Layers in Rotating Stratified Fluids Hajime Koba, 2014-03-05 A stationary solution of the rotating Navier Stokes equations with a boundary condition is called an Ekman boundary layer This book constructs stationary solutions of the rotating Navier Stokes Boussinesq equations with stratification effects in the case when the rotating axis is not necessarily perpendicular to the horizon The author calls such stationary solutions Ekman layers This book shows the existence of a weak solution to an Ekman perturbed system which satisfies the strong energy inequality Moreover the author discusses the uniqueness of weak solutions and computes the decay rate of weak solutions with respect to time under some assumptions on the Ekman layers and the physical parameters The author also shows that there exists a unique global in time strong solution of the perturbed system when the initial datum is sufficiently small Comparing a weak solution satisfying the strong energy inequality with the strong solution implies that the weak solution is smooth with respect to time when time is sufficiently large

The Eruption of Soufriere Hills Volcano, Montserrat from 2000 to 2010 G. Wadge, R.E.A. Robertson, B. Voight, 2014-09-04 The 1995 to present eruption of Soufriere Hills Volcano on Montserrat is one of the most important and best studied eruptions of an explosive andesitic volcano This volume presents scientific findings from the period between 2000 and 2010 it follows on from Memoir 21 which focused on the early years of activity between 1995 and 1999 In addition to descriptions and analysis of the growth collapse and explosions associated with lava domes there are papers on the deformation of the volcano caused by the deep magma the petrology and geochemistry of the lavas and associated gases Of particular note are an overview of the insights into the deep structure of the volcano that resulted from a major international seismic tomography experiment and an analysis of the quantitative risk assessment process that has run now for most of the eruption the longest such continuous assessment in the world

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

Relative Equilibria in the 3-Dimensional Curved n -Body Problem Florin Diacu, 2014-03-05 Considers the 3 dimensional gravitational n body problem $n \geq 2$ in spaces of constant Gaussian curvature $K \neq 0$ i.e on spheres S^3 for $K < 0$ and on hyperbolic manifolds H^3 for $K > 0$ *The Science of Armour Materials* Ian Crouch, 2016-09-21 The Science of Armour Materials comprehensively covers the range of armor materials from steels and light alloys through glasses and ceramics to fibers textiles and protective apparel The book also discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies Each chapter is written from an international perspective including reviews of the current global literature and incorporates case studies that focus upon real life applications research outcomes and lessons learned The threat spectrum is restricted to small arms ammunition high velocity fragments and stab and spike attacks as well as blast loadings Features input from an editor who is an expert in his field Dr Ian Crouch the author of over 80 publications in his field with three patents to his name Provides systematic and comprehensive coverage of armor materials modeling and testing Offers a cross disciplinary approach that brings together expertise in materials science and defense engineering Discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies Real Non-Abelian Mixed Hodge Structures for Quasi-Projective Varieties:

Formality and Splitting J. P. Pridham, 2016-09-06 The author defines and constructs mixed Hodge structures on real schematic homotopy types of complex quasi projective varieties giving mixed Hodge structures on their homotopy groups and pro algebraic fundamental groups The author also shows that these split on tensoring with the ring $R[x]$ equipped with the Hodge filtration given by powers of x giving new results even for simply connected varieties The mixed Hodge structures

can thus be recovered from the Gysin spectral sequence of cohomology groups of local systems together with the monodromy action at the Archimedean place As the basepoint varies these structures all become real variations of mixed Hodge structure

Near Soliton Evolution for Equivariant Schrodinger Maps in Two Spatial Dimensions Ioan Bejenaru, Daniel

Tataru, 2014-03-05 The authors consider the Schrödinger Map equation in $2+1$ dimensions with values into \mathbb{S}^2 This admits a lowest energy steady state Q namely the stereographic projection which extends to a two dimensional family of steady states by scaling and rotation The authors prove that Q is unstable in the energy space \dot{H}^1 However in the process of proving this they also show that within the equivariant class Q is stable in a stronger topology $X \subset \dot{H}^1$

New Critical Spaces in Transitional Justice Arnaud Kurze, Christopher K. Lamont, 2019-01-10 Since the 1980s transitional justice mechanisms have been increasingly applied to account for mass atrocities and grave human rights violations throughout the world Over time post conflict justice practices have expanded across continents and state borders and have fueled the creation of new ideas that go beyond traditional notions of amnesty retribution and reconciliation Gathering work from contributors in international law political science sociology and history New Critical Spaces in Transitional Justice addresses issues of space and time in transitional justice studies It explains new trends in responses to post conflict and post authoritarian nations and offers original empirical research to help define the field for the future

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