

## 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 propanal  
 D Ethanol and propanone
- 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 involved.  
 B A new element is formed and the original reactants are destroyed.  
 C An electron has been gained or lost in the reaction.  
 D At least one molecule is oxidised.
- 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 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)

# Grade 12 Physical Science Assignment 2014 March

**Jules J. Berman**



## **Grade 12 Physical Science Assignment 2014 March:**

**Organization and Administration of Physical Education** Jayne D. Greenberg, Judy L. LoBianco, 2025-03-11 The revised SHAPE America National Physical Education Standards are defining physical education PE programs providing the framework for students physical literacy journeys Organization and Administration of Physical Education Theory and Practice Second Edition With HKPropel Access incorporates the revised standards making it the text administrators need to learn how the standards affect curriculum development and implementation of a successful PE program This edition is thoroughly updated by two award winning educators Jayne Greenberg and Judy LoBianco who are joined by a sterling list of contributors who have taught at every education level in urban suburban and rural settings In this second edition the roles and responsibilities of PE administrators are examined through theoretical and practical lenses Beyond incorporating the revised PE standards and the latest research throughout other enhancements to this edition include the following An expanded technology chapter that addresses equity and the digital divide remote learning virtual and augmented reality and artificial intelligence A more comprehensive chapter on teacher and program evaluation A new chapter on social emotional learning SEL with connections between content pedagogy and practices A new chapter on diversity equity and inclusion that provides culturally responsive teaching approaches to elevate the participation of underrepresented teachers and students New content for physical education department chairpersons The result is an essential manual for future and current administrators in PE leadership positions who want to acquire new skills in the primary six areas of responsibility Part I explores leadership and management styles and presents practical theories of motivation development and planning for the essential components of a quality PE program In part II readers examine various curriculum instruction and assessment models and get guidance on planning special events Part III helps administrators plan new school facilities or renovate existing ones and it presents contemporary concepts in universal design and sustainable environmental design It also offers ideas on how to incorporate technology including developing online PE courses Part IV explores communication legal issues and human resources so administrators can learn how to advocate for their programs Part V explains the fiscal responsibilities inherent in administrative positions and shows how administrators can secure independent funding offering many examples of grants and fundraising opportunities with sample grant applications Part VI new to this edition explores the integration of content and pedagogy with SEL practices It also offers legal and practical strategies to enhance the involvement of those who are underrepresented in PE Each chapter also includes sidebars from professionals who share tips and insights on successful program implementations To further enhance practical application readers have online access to downloadable forms checklists and other supportive materials Published with SHAPE America this text offers the solid foundational theory and practices needed for today s challenges in PE administration Note A code for accessing HKPropel is included with this ebook **Signal** ,2014 **Handbook of Research on Science Education, Volume II** Norman G.

Lederman, Sandra K. Abell, 2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community

**Annual Report** Mpumalanga (South Africa). Department of Education, 2015 *Technology for Physical Educators, Health Educators, and Coaches* Seth E. Jenny, Jennifer M. Krause, Tess Armstrong, 2021 Technology for Physical Educators Health Educators and Coaches guides instructors and coaches in taking full advantage of current technology to help them enhance their instruction assessment management communication professional development and advocacy

**Future of STEM education: Multiple perspectives from researchers** Subramaniam Ramanathan, Ida Ah Chee Mok, 2023-03-28 *Congressional Record* United States. Congress, 2010 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

**Daily Graphic** Ransford Tetteh, 2014-03-12 K-12 Science and Math Education Across the Federal Agencies United States. Congress. House. Committee on Science, 2006

**Thermal Energy** Yatish T. Shah, 2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices used to improve transfer and transformation processes

*Nuclear Proliferation and Terrorism in the Post-9/11 World* David Hafemeister, 2016-03-29 This book fills a clear gap in the literature for a technically focused book covering nuclear proliferation and related issues post 9 11 Using a concept led approach which serves a broad readership it provides detailed overview of nuclear weapons nuclear

proliferation and international nuclear policy The author addresses topics including offensive and defensive missile systems command and control verification weapon effects and nuclear testing A chronology of nuclear arms is presented including detailed discussion of the Cold War proliferation and arms control treaties The book is tailored to courses on nuclear proliferation and the general reader will also find it a fascinating introduction to the science and strategy behind

international nuclear policy in the modern era **Logic and Critical Thinking in the Biomedical Sciences** Jules J.

Berman,2020-07-03 Science is not a collection of facts Science is the process by which we draw inferences from facts Volume I of Logic and Critical Thinking in the Biomedical Sciences invites readers to linger over a collection of common observations to see what inferences can be drawn when one applies a bit of deductive logic If we just think about what we observe it is often possible to discover profound biomedical insights Volumes 1 and 2 of Logic and Critical Thinking in the Biomedical Sciences are written for biomedical scientists and college level students engaged in any of the life sciences including bioinformatics and related data sciences Provides a strong introduction to deductive methods that can be directly applied to the biomedical sciences Using hundreds of examples shows how creative scientists draw important inferences from observations that are often ignored by their peers Discusses complex biological and medical concepts in a relaxed manner intended to focus the reader s attention on the deductive process without dwelling excessively on details *Emerging*

*Practices for Online Language Assessment, Exams, Evaluation, and Feedback* Gokturk-Saglam, Asli Lidice,Sevgi-Sole, Ece,2023-06-29 The advancement of digital tools has enabled the development of online language assessments exams evaluations and feedback Nonetheless the language assessment literacy required of a teacher today is of a completely different kind one that is adapted to the digital environment and altered for the pedagogical approaches of our new norm There is a scarcity of literature addressing the challenges of in person to online assessments exams evaluations and feedback particularly in the time of the COVID 19 education crisis *Emerging Practices for Online Language Assessment Exams Evaluation and Feedback* investigates the main challenges of online language assessment when migrating from an in class to an online environment due to academic integrity adaptation to the new testing environment technical problems and anxiety Covering key topics such as parental involvement self assessment and language learners this premier reference source is ideal for administrators policymakers industry professionals researchers academicians scholars practitioners instructors and students **Conflict and Governance** Susan Brown,2005 The Authors interrogate the manner in which South Africas

changing economy is re shaping the political and the social landscape Based on in depth analysis of the data suggestions are made for future policy development *Deconstructing Depth of Knowledge* Erik M. Francis,2021-11-05 Depth of knowledge DOK has become a priority for many schools But if your understanding of DOK is a little cloudy you re not alone This resource is your one stop shop for learning what it is who it s for and how to use and sustain it Ultimately you will discover how to plan and provide learning experiences that are academically rigorous socially and emotionally supportive and student

responsive Learn how DOK is a different deeper way of approaching teaching and learning Explore the different DOK levels and how they relate to instruction Understand DOK s relationship with standards and assessment Designate correct levels based on learning needs Acquire strategies for helping students engage with DOK on a deeper level Contents Introduction What Depth of Knowledge Is Not Chapter 1 What Exactly Is Depth of Knowledge Chapter 2 What Are DOK Teaching and Learning Experiences Chapter 3 How to Teach and Learn for Depth of Knowledge Chapter 4 How to Use Webb s DOK Levels as a Multi Tiered System of Support Chapter 5 How to Deconstruct Learning Intentions for Depth of Knowledge Chapter 6 How to Designate the Depth of Knowledge Level Demanded Chapter 7 How to Construct DOK Learning Targets and Success Criteria Chapter 8 How to Ask and Address Good Questions for Depth of Knowledge Chapter 9 Let s Make a DOK Conclusion References and Resources Index

*Teaching Elementary STEM Education* Sherri Cianca,2019-07-19 This textbook offers practical guidelines for integrating science technology engineering and mathematics into the elementary classroom in the context of addressing real world problems and cultivating in students high level thinking and problem solving skills Designed to equip teachers and future teachers with tools to create and implement standards based STEM curriculum and cognitively demanding tasks author Sherri Cianca offers hands on easily implemented strategies that foster student reasoning autonomy and humanity This fresh approach to STEM teaching empowers teachers preservice and inservice and other leaders to better understand the standards and better design effective instructional practices The chapters work together to advance teachers abilities to achieve mastery level understanding of content translate standards into student friendly curriculum and create a robust learning environment Each chapter contains probes to uncover incomplete and inaccurate conceptions and to focus attention on key learning elements Chapter summaries and Reflect and Apply sections reinforce professional development and appendices expand on chapter content and provide rich examples of STEM units curriculum and assessment criteria Dr Cianca s vision is that teachers serve as well equipped change agents that will empower their students to transfer STEM learning into applications that will impart a positive impact on our future world

United States of America Congressional Record, Proceedings and Debates of the 113th Congress Second Session Volume 160 - Part 4 , Perspectives on Deep-Sea Mining Rahul Sharma,2022-01-13 This book is a sequel to Deep Sea Mining Resource Potential Technical and Environmental Considerations 2017 and Environmental Issues of Deep Sea Mining Impacts Consequences and Policy Perspectives 2019 and aims to provide a comprehensive volume on different perspectives of deep sea mining from specialists around the world The work is timely as deep sea minerals continue to enthuse researchers involved in activities such as ascertaining their potential as alternative sources for critical metals for green energy and other industrial applications as well as technology development for their sustainable exploration and exploitation while addressing environmental concerns With a steady increase in the number of contractors having exclusive rights over large tracts of seafloor in the Area i e area beyond national jurisdictions the International Seabed Authority mandated with the responsibility of regulating such activities is in

the process of developing a code for exploitation of deep sea minerals These coupled with growing interest among private entrepreneurs investment companies and policy makers underscore the need for updated information to be made available in one place on the subject of deep sea mining The book evaluates the potential and sustainability of mining for deep sea minerals compared to other land based deposits the technologies needed for mining and processing of ores the approach towards environmental monitoring and management as well as the regulatory frameworks and legal challenges to manage deep sea mining activities The book is expected to serve as an important reference for all stakeholders including researchers contractors mining companies regulators and NGOs involved in deep sea mining

*Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions* Francesco Silvestri, Nicola Moraci, 2019-10-22 *Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions* contains invited keynote and theme lectures and regular papers presented at the 7th International Conference on Earthquake Geotechnical Engineering Rome Italy 17-20 June 2019 The contributions deal with recent developments and advancements as well as case histories field monitoring experimental characterization physical and analytical modelling and applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them The book is divided in the sections below Invited papers Keynote papers Theme lectures Special Session on Large Scale Testing Special Session on Liquefaction Projects Special Session on Lessons learned from recent earthquakes Special Session on the Central Italy earthquake Regular papers *Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions* provides a significant up to date collection of recent experiences and developments and aims at engineers geologists and seismologists consultants public and private contractors local national and international authorities and to all those involved in research and practice related to Earthquake Geotechnical Engineering

**Handbook of Research on STEM Education** Carla C. Johnson, Margaret J. Mohr-Schroeder, Tamara J. Moore, Lyn D. English, 2020-04-27 The *Handbook of Research on STEM Education* represents a groundbreaking and comprehensive synthesis of research and presentation of policy within the realm of science technology engineering and mathematics STEM education What distinguishes this *Handbook* from others is the nature of integration of the disciplines that is the founding premise for the work all chapters in this book speak directly to the integration of STEM rather than discussion of research within the individual content areas The *Handbook of Research on STEM Education* explores the most pressing areas of STEM within an international context Divided into six sections the authors cover topics including the nature of STEM STEM learning STEM pedagogy curriculum and assessment critical issues in STEM STEM teacher education and STEM policy and reform The *Handbook* utilizes the lens of equity and access by focusing on STEM literacy early childhood STEM learners with disabilities informal STEM socio scientific issues race related factors gender equity cultural relevancy and parental involvement Additionally discussion of STEM education policy in a variety of countries is included as well as a focus on

engaging business industry and teachers in advocacy for STEM education The Handbook s 37 chapters provide a deep and meaningful landscape of the implementation of STEM over the past two decades As such the findings that are presented within provide the reader with clear directions for future research into effective practice and supports for integrated STEM which are grounded in the literature to date



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