

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 A new element is formed and the original quantities of the reactants are conserved.
 C An ionic substance and a molecular substance are formed.
 D An ionic compound is produced containing covalent bonds.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight and falls towards the centre of the Earth.
 B An object is free of weight and falls towards the centre of the Earth.
 C An object is free of weight and falls towards the centre of the Earth.
 D An object is free of weight and falls towards the centre of the Earth.
- 1.4 The inertia of an object...
- A is measured by the mass of the object.
 B is the resistance to change in the object's motion.
 C is the resistance to change in the object's velocity.
 D is the resistance to change in the object's acceleration.

- 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 Paper February March 2memorandum

Michael Brown



Physical Science Paper February March 2memorandum:

How We Teach Science John L. Rudolph, 2019-06-01 Despite an enduring belief that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process John Rudolph shows that how we think about and teach science will either sustain or thwart future innovation and determine how science is perceived by the public **Federal Register**, 2012-06 *Final Report* United States. Advisory Committee on Weather Control, 1958 ESSA Science and Engineering United States. Environmental Science Services Administration, 1968 **Rearming for the Cold War, 1945-1960** Elliott Vanveltner Converse, 2012 Book Description The first publication in a multivolume series on the history of the acquisition of major weapon systems by the Department of Defense author Elliott Converse presents a meticulously researched overview of changes in acquisition policies organizations and processes within the United States military establishment during the decade and a half following World War II Many of the changes that shaped the nature and course of weapons research and development production and contracting through the end of the century were instituted between 1945 and 1960 many of the problems that have repeatedly challenged defense policymakers and acquisition professionals also first surfaced during these years This study is the first to combine the histories of the Office of the Secretary of Defense OSD and the military services into one account The volume is organized chronologically with individual chapters addressing the roles of OSD the Army Navy and Air Force in two distinct periods

Gleanings and Memoranda, 1907 **Yerkes Observatory, 1892-1950** Donald E. Osterbrock, 2008-04-15 Drawing on his experience as historian of astronomy practicing astrophysicist and director of Lick Observatory Donald Osterbrock uncovers a chapter in the history of astronomy by providing the story of the Yerkes Observatory *Final Report of the Advisory Committee on Weather Control*, 1958 **Japan Viewed from Interdisciplinary Perspectives** Yoneyuki Sugita, 2015-10-29 The growth rate of the Gross Domestic Product GDP in the Asia Pacific region greatly surpasses the world average When the Trans Pacific Partnership TPP is better realized then the world's largest free trade zone will be firmly established It seems that this region has a very rosy outlook indeed however this region also faces a large number of serious problems such as atomic energy in Japan conflicts about East Asian regional integration the decline of the Japanese Official Development Assistance ODA and the TPP's possible impact on the Japanese universal health insurance system We now face a possible Sino Japanese military conflict concerning the Senkaku Islands or Diaoyutai Islands In short the Asia Pacific region has both a rosy future and the potential influence from unstable and dangerous elements at work within the region at present The main purpose of this book is to analyze historical development whilst looking at the contemporary situation of Japan from interdisciplinary perspectives This book asks three major questions 1 Is this really globalization 2 What are Japan's relations with other Asian countries 3 Do U S Japan relations still matter Fourteen leading scholars in their fields answer these questions from interdisciplinary perspectives *California Earthquakes* Carl-Henry Geschwind, 2003-04-30 Winner of the

Book Prize of the Forum for the History of Science in America from the History of Science Society In 1906 after an earthquake wiped out much of San Francisco leading California officials and scientists described the disaster as a one time occurrence and assured the public that it had nothing to worry about California Earthquakes explains how over time this attitude changed and Californians came to accept earthquakes as a significant threat as well as to understand how science and technology could reduce this threat Carl Henry Geschwind tells the story of the small group of scientists and engineers who in tension with real estate speculators and other pro growth forces private and public developed the scientific and political infrastructure necessary to implement greater earthquake awareness Through their political connections these reformers succeeded in building a state apparatus in which regulators could work together with scientists and engineers to reduce earthquake hazards Geschwind details the conflicts among scientists and engineers about how best to reduce these risks and he outlines the dramatic twentieth century advances in our understanding of earthquakes their causes and how we can try to prepare for them Tracing the history of seismology and the rise of the regulatory state and of environmental awareness California Earthquakes tells how earthquake hazard management came about why some groups assisted and others fought it and how scientists and engineers helped shape it **Final Report of the Advisory Committee on Weather Control** United States. Advisory Committee on Weather Control,1958 *Parliamentary Papers* Great Britain. Parliament. House of Commons,1911 **Teaching Children Science** Sally Gregory Kohlstedt,2010-05-15 In the early twentieth century a curriculum known as nature study flourished in major city school systems streetcar suburbs small towns and even rural one room schools This object based approach to learning about the natural world marked the first systematic attempt to introduce science into elementary education and it came at a time when institutions such as zoos botanical gardens natural history museums and national parks were promoting the idea that direct knowledge of nature would benefit an increasingly urban and industrial nation The definitive history of this once pervasive nature study movement TeachingChildren Science emphasizes the scientific pedagogical and social incentives that encouraged primarily women teachers to explore nature in and beyond their classrooms Sally Gregory Kohlstedt brings to vivid life the instructors and reformers who advanced nature study through on campus schools summer programs textbooks and public speaking Within a generation this highly successful hands on approach migrated beyond public schools into summer camps afterschool activities and the scouting movement Although the rich diversity of nature study classes eventually lost ground to increasingly standardized curricula Kohlstedt locates its legacy in the living plants and animals in classrooms and environmental field trips that remain central parts of science education today **Computerworld** ,1981-11-09 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network Catalog of Copyright Entries. Third Series

Library of Congress. Copyright Office,1948 Includes Part 1A Books and Part 1B Pamphlets Serials and Contributions to Periodicals Intellect ,1916 **School & Society** James McKeen Cattell,Raymond Walters,1916 **Prologue** ,1996

Nugget Coombs Tim Rowse,2005-09-27 H C Coombs was one of the most influential Australians of the twentieth century Born in 1906 he is best known as the governor of the Reserve Bank but the breadth of his activities and his commitment to public life until his death is unsurpassed Tim Rowse traces Coombs life from his childhood in Western Australia to his many roles as policy maker change agent advocate and adviser Particularly interested in Coombs as an economist Tim Rowse shows that a key motif in his life as a public servant was to create an economic rationality among the political elite that was socially integrative and that looked beyond the strictures of economics to environmental sustainability scientific and artistic creativity This 2002 book covers Coombs life from birth to death providing intriguing insights into the life of one of Australia s most influential people Education Outlook ,1894

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physical Science Paper February March 2memorandum**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Physical Science Paper February March 2memorandum

1. Understanding the eBook Physical Science Paper February March 2memorandum
 - The Rise of Digital Reading Physical Science Paper February March 2memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper February March 2memorandum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science Paper February March 2memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper February March 2memorandum
 - Personalized Recommendations
 - Physical Science Paper February March 2memorandum User Reviews and Ratings
 - Physical Science Paper February March 2memorandum and Bestseller Lists

5. Accessing Physical Science Paper February March 2memorandum Free and Paid eBooks
 - Physical Science Paper February March 2memorandum Public Domain eBooks
 - Physical Science Paper February March 2memorandum eBook Subscription Services
 - Physical Science Paper February March 2memorandum Budget-Friendly Options
6. Navigating Physical Science Paper February March 2memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Paper February March 2memorandum Compatibility with Devices
 - Physical Science Paper February March 2memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper February March 2memorandum
 - Highlighting and Note-Taking Physical Science Paper February March 2memorandum
 - Interactive Elements Physical Science Paper February March 2memorandum
8. Staying Engaged with Physical Science Paper February March 2memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper February March 2memorandum
9. Balancing eBooks and Physical Books Physical Science Paper February March 2memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper February March 2memorandum
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Paper February March 2memorandum
 - Setting Reading Goals Physical Science Paper February March 2memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Paper February March 2memorandum
 - Fact-Checking eBook Content of Physical Science Paper February March 2memorandum
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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