

## 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 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 element that undergoes a gradual change in its properties.  
 D An element that forms a variable number of compounds.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object in free fall under the influence of gravity.  
 B An object in free fall under the influence of gravity and air resistance.  
 C An object in free fall under the influence of gravity and air resistance.  
 D An object in free fall under the influence of gravity and air resistance.
- 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 A. (1)  
 Write down the functional group of compound B. (1)  
 Write down the functional group of compound C. (1)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the IUPAC name of compound B. (2)

# Physical Science Grade 12 2014 Papers

**JG Myers**



## **Physical Science Grade 12 2014 Papers:**

Sessional Papers British Columbia. Parliament, 1927      **Inquiry-Based Science in the Primary Classroom** Garima Bansal, Umesh Ramnarain, 2023-06-20 The chapters in this book represent a cross section of research conducted in inquiry based science education at primary levels of schooling in international contexts that include school settings in Australia India Singapore South Africa Turkey Northern Ireland and the United States The book includes empirical studies on the role of inquiry based learning in advancing students conceptual understanding and modelling proficiency students understandings about the nature of scientific inquiry classroom studies on teachers enactment of inquiry based learning teachers facilitation of classroom discourse for inquiry based learning and co teaching in developing teachers in adopting an inquiry based pedagogy It was originally published as a special issue of the journal Education 3 13      **Sessional Papers, British**

**Columbia** British Columbia. Legislative Assembly, 1927 Compilation of annual reports of various governmental agencies

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**Resources in Education ,2001-04 Philippine Education ,1913 Message of the President of the United States Transmitting the Budget for the Service of the Fiscal Year Ending ...** United States,1951 Water-supply Paper ,1938 **Women's Under-Representation in the Engineering and Computing Professions: Fresh Perspectives on a Complex Problem** Kathleen Buse,Catherine Hill,Romila Singh,2018-06-21 Understanding the many

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The Chemical News and Journal of Physical Science ,1897      *Bulletin of the United States Bureau of Labor Statistics* ,1913      *Occupations of Federal White-collar Workers* ,1957      **Report** International Clearinghouse on Science and Mathematics Curricular Developments,1972

**Canadian Books in Print. Author and Title Index** ,1975      The Budget of the United States Government United States. Bureau of the Budget,1954      **Parliamentary Papers** Great Britain. Parliament. House of Commons,1902

**Legislative Documents** Iowa,1909 Contains the reports of state departments and officials for the preceding fiscal biennium

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## **Table of Contents Physical Science Grade 12 2014 Papers**

1. Understanding the eBook Physical Science Grade 12 2014 Papers
  - The Rise of Digital Reading Physical Science Grade 12 2014 Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 12 2014 Papers
  - 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 Grade 12 2014 Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 12 2014 Papers
  - Personalized Recommendations
  - Physical Science Grade 12 2014 Papers User Reviews and Ratings
  - Physical Science Grade 12 2014 Papers and Bestseller Lists
5. Accessing Physical Science Grade 12 2014 Papers Free and Paid eBooks
  - Physical Science Grade 12 2014 Papers Public Domain eBooks
  - Physical Science Grade 12 2014 Papers eBook Subscription Services
  - Physical Science Grade 12 2014 Papers Budget-Friendly Options
6. Navigating Physical Science Grade 12 2014 Papers eBook Formats

- ePub, PDF, MOBI, and More
  - Physical Science Grade 12 2014 Papers Compatibility with Devices
  - Physical Science Grade 12 2014 Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physical Science Grade 12 2014 Papers
    - Highlighting and Note-Taking Physical Science Grade 12 2014 Papers
    - Interactive Elements Physical Science Grade 12 2014 Papers
  8. Staying Engaged with Physical Science Grade 12 2014 Papers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physical Science Grade 12 2014 Papers
  9. Balancing eBooks and Physical Books Physical Science Grade 12 2014 Papers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physical Science Grade 12 2014 Papers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physical Science Grade 12 2014 Papers
    - Setting Reading Goals Physical Science Grade 12 2014 Papers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physical Science Grade 12 2014 Papers
    - Fact-Checking eBook Content of Physical Science Grade 12 2014 Papers
    - 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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