

## 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 element that undergoes a gradual change in its properties.  
 D An element that undergoes a gradual change in its properties.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object in free fall experiences a force that is equal to the weight of the object.  
 B An object in free fall experiences a force that is equal to the weight of the object.  
 C An object in free fall experiences a force that is equal to the weight of the object.  
 D An object in free fall experiences a force that is equal to the weight of the object.
- 1.4 The inertia of an object...
- A is a measure of the object's mass.  
 B is a measure of the object's velocity.  
 C is a measure of the object's acceleration.  
 D is a measure of the object's displacement.

- 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 A. (1)  
 Write down the functional group of compound B. (1)  
 Write down the functional group of compound C. (1)  
 Write down the IUPAC name of compound B. (2)

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**Rosina Ehmann**



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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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