

## 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 constant number of different ions are released, but the number of different ions is not constant.  
 C An infinite number of different ions are released, but the number of different ions is not constant.  
 D An infinite number of different ions are released, but the number of different ions is constant.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight because it is not touching the ground.  
 B An object is free of weight because it is not touching the ground.  
 C An object is free of weight because it is not touching the ground.  
 D An object is free of weight because it is not touching the ground.
- 1.4 The inertia of an object...
- A is the same for all objects.  
 B is the same for all objects.  
 C is the same for all objects.  
 D is the same for all objects.

- 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  $3r$   
 D  $4r$

- 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 heavy.  
 D The box is too light.
- 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 heavy.  
 D The box is too light.

[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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### **Table of Contents Physical Science March Controlled Test For Grade 1**department Paper

1. Understanding the eBook Physical Science March Controlled Test For Grade 1department Paper
  - The Rise of Digital Reading Physical Science March Controlled Test For Grade 1department Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science March Controlled Test For Grade 1department Paper
  - 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 March Controlled Test For Grade 1department Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science March Controlled Test For Grade 1department Paper
  - Personalized Recommendations
  - Physical Science March Controlled Test For Grade 1department Paper User Reviews and Ratings

- Physical Science March Controlled Test For Grade 1department Paper and Bestseller Lists
- 5. Accessing Physical Science March Controlled Test For Grade 1department Paper Free and Paid eBooks
  - Physical Science March Controlled Test For Grade 1department Paper Public Domain eBooks
  - Physical Science March Controlled Test For Grade 1department Paper eBook Subscription Services
  - Physical Science March Controlled Test For Grade 1department Paper Budget-Friendly Options
- 6. Navigating Physical Science March Controlled Test For Grade 1department Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science March Controlled Test For Grade 1department Paper Compatibility with Devices
  - Physical Science March Controlled Test For Grade 1department Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science March Controlled Test For Grade 1department Paper
  - Highlighting and Note-Taking Physical Science March Controlled Test For Grade 1department Paper
  - Interactive Elements Physical Science March Controlled Test For Grade 1department Paper
- 8. Staying Engaged with Physical Science March Controlled Test For Grade 1department Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science March Controlled Test For Grade 1department Paper
- 9. Balancing eBooks and Physical Books Physical Science March Controlled Test For Grade 1department Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science March Controlled Test For Grade 1department Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science March Controlled Test For Grade 1department Paper
  - Setting Reading Goals Physical Science March Controlled Test For Grade 1department Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science March Controlled Test For Grade 1department Paper
  - Fact-Checking eBook Content of Physical Science March Controlled Test For Grade 1department Paper
  - 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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