

## 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 propanoic acid  
 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 When a certain amount of acid is added to a given amount of alkali, the reaction is complete.  
 C An alkali solution turns a universal indicator from red to blue.  
 D An alkali solution is a weakly oxidising solution.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight (weightlessness) only in the space.  
 B An object is weightless only in a state of free fall (weightlessness) because of gravity.  
 C An object is free of weight (weightlessness) only when the upward acceleration is equal to  $g$ .  
 D An object is free of weight (weightlessness) only when the upward acceleration is  $2g$ .
- 1.4 The inertia of an object...
- A increases with the mass of the object.  
 B increases with the applied force on the object (acceleration).  
 C is the resistance to acceleration for the object of a given mass.  
 D increases as the frictional force on the object increases.

- 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 Frictional force is zero.  
 B Frictional force is more than 100N.  
 C Frictional force is less than 100N.  
 D None of the above.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A Frictional force is zero.  
 B Frictional force is more than 100N.  
 C Frictional force is less than 100N.  
 D None of the above.

[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 explain how the carbon 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)

# Northwest Grade 1physics Memorandum

**M Walker**



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## **Table of Contents Northwest Grade 1physics Memorandum**

1. Understanding the eBook Northwest Grade 1physics Memorandum
  - The Rise of Digital Reading Northwest Grade 1physics Memorandum
  - Advantages of eBooks Over Traditional Books
2. Identifying Northwest Grade 1physics Memorandum
  - 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 Northwest Grade 1physics Memorandum
  - User-Friendly Interface
4. Exploring eBook Recommendations from Northwest Grade 1physics Memorandum
  - Personalized Recommendations
  - Northwest Grade 1physics Memorandum User Reviews and Ratings
  - Northwest Grade 1physics Memorandum and Bestseller Lists
5. Accessing Northwest Grade 1physics Memorandum Free and Paid eBooks
  - Northwest Grade 1physics Memorandum Public Domain eBooks
  - Northwest Grade 1physics Memorandum eBook Subscription Services
  - Northwest Grade 1physics Memorandum Budget-Friendly Options

6. Navigating Northwest Grade 1physics Memorandum eBook Formats
  - ePub, PDF, MOBI, and More
  - Northwest Grade 1physics Memorandum Compatibility with Devices
  - Northwest Grade 1physics Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Northwest Grade 1physics Memorandum
  - Highlighting and Note-Taking Northwest Grade 1physics Memorandum
  - Interactive Elements Northwest Grade 1physics Memorandum
8. Staying Engaged with Northwest Grade 1physics Memorandum
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Northwest Grade 1physics Memorandum
9. Balancing eBooks and Physical Books Northwest Grade 1physics Memorandum
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Northwest Grade 1physics Memorandum
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Northwest Grade 1physics Memorandum
  - Setting Reading Goals Northwest Grade 1physics Memorandum
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Northwest Grade 1physics Memorandum
  - Fact-Checking eBook Content of Northwest Grade 1physics Memorandum
  - 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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