

## 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 1.6. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A  $C_2H_6$  and  $C_3H_8$   
 B  $C_2H_6$  and  $C_3H_6$   
 C  $C_2H_4$  and  $C_3H_6$   
 D  $C_2H_4$  and  $C_3H_8$
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A Reaction involving ethane and chlorine  
 B Iron(II) ions reacting with the cyanide ion  
 C An alkyl bromide reacting with a sulfide ion  
 D An alkene reacting with a secondary amine
- 1.3 Which of the statements below best describes Weightlessness?
- A An object in free fall under the influence of the force of gravity  
 B An object in free fall under the influence of the force of gravity  
 C An object in free fall under the influence of the force of gravity  
 D An object in free fall under the influence of the force of gravity
- 1.4 The inertia of an object ...
- A increases as the mass of the object increases  
 B increases as the applied force on the object increases  
 C is the resistance to acceleration for the object  
 D increases as the frictional force on the object increases.

- 1.5 An astronaut has a weight  $E_1$  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 ( $E_1$ ) 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 Friction force is zero  
 B Friction force is more than 100N  
 C Friction 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 Friction force is zero  
 B Friction force is more than 100N  
 C Friction 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:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$

- 2.1 Write down the functional group of each of the above compounds. The carbon to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (1)
- 2.3 Write down the:  
 2.3.1 IUPAC name of compound A (1)  
 2.3.2 IUPAC name of compound B (2)

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**ML Yell**



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### **Table of Contents Grade 12 Physical Science Previous Question Papers**

1. Understanding the eBook Grade 12 Physical Science Previous Question Papers
  - The Rise of Digital Reading Grade 12 Physical Science Previous Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Physical Science Previous Question 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 Grade 12 Physical Science Previous Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Physical Science Previous Question Papers
  - Personalized Recommendations

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