

## 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 involved.  
 B Aqueous solution of a substance just dissolves in water and does not react.  
 C An ionic substance forms a precipitate when mixed with another solution.  
 D An ionic compound is made by neutralisation.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces and is in free fall.  
 B An object is moving in a circle at a constant speed but is not accelerating.  
 C An object is in a state of free fall where the only force acting on it is the force of gravity.  
 D An object is in a state of free fall where the only force acting on it is the force of gravity.
- 1.4 The inertia of an object...
- A is measured by its mass and weight.  
 B is the resistance to applied force in the opposite direction.  
 C is the resistance to acceleration in the direction of motion.  
 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 which is present in the cation 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)

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### **Table of Contents Physical Science Exam Paper 2march**

1. Understanding the eBook Physical Science Exam Paper 2march
  - The Rise of Digital Reading Physical Science Exam Paper 2march
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Exam Paper 2march
  - 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 a Physical Science Exam Paper 2march
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Exam Paper 2march
  - Personalized Recommendations

- Physical Science Exam Paper 2march User Reviews and Ratings
- Physical Science Exam Paper 2march and Bestseller Lists
- 5. Accessing Physical Science Exam Paper 2march Free and Paid eBooks
  - Physical Science Exam Paper 2march Public Domain eBooks
  - Physical Science Exam Paper 2march eBook Subscription Services
  - Physical Science Exam Paper 2march Budget-Friendly Options
- 6. Navigating Physical Science Exam Paper 2march eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Exam Paper 2march Compatibility with Devices
  - Physical Science Exam Paper 2march Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Exam Paper 2march
  - Highlighting and Note-Taking Physical Science Exam Paper 2march
  - Interactive Elements Physical Science Exam Paper 2march
- 8. Staying Engaged with Physical Science Exam Paper 2march
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Exam Paper 2march
- 9. Balancing eBooks and Physical Books Physical Science Exam Paper 2march
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Exam Paper 2march
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Exam Paper 2march
  - Setting Reading Goals Physical Science Exam Paper 2march
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Exam Paper 2march
  - Fact-Checking eBook Content of Physical Science Exam Paper 2march

- 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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