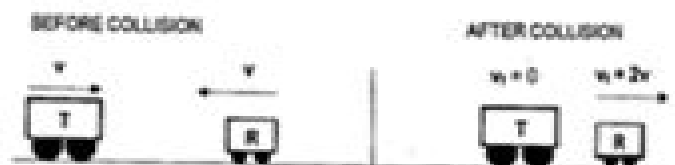


## GRADE 12 PHYSICAL SCIENCES MARCH TEST

### 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 An object moving with constant acceleration.  
 B An object moving with constant speed in a straight line.  
 C An object moving with constant speed in a circular path.  
 D An object moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moves at constant velocity through the air.  
 B An object moves with constant velocity through the air.  
 C An object moves with constant velocity through the air.  
 D An object moves with constant velocity through the air.
- 1.4 The inertia of an object...
- A increases with its mass.  
 B increases with its speed.  
 C increases with its acceleration.  
 D increases with its velocity.

- 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 The box is too heavy.  
 B The box is too light.  
 C The box is too big.  
 D The box is too small.
- 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 big.  
 D The box is too small.

[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 in compound C and name 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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1. Understanding the eBook Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - The Rise of Digital Reading Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - 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 Common Test Paper 2 March 2014 Grade 12 For Caps
  - User-Friendly Interface

4. Exploring eBook Recommendations from Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Personalized Recommendations
  - Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps User Reviews and Ratings
  - Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps and Bestseller Lists
5. Accessing Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps Free and Paid eBooks
  - Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps Public Domain eBooks
  - Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps eBook Subscription Services
  - Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps Budget-Friendly Options
6. Navigating Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps Compatibility with Devices
  - Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Highlighting and Note-Taking Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Interactive Elements Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
8. Staying Engaged with Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
9. Balancing eBooks and Physical Books Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Setting Reading Goals Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - Fact-Checking eBook Content of Physical Science Common Test Paper 2 March 2014 Grade 12 For Caps
  - 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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