

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 at constant velocity through water.
 C An object moves at constant velocity through the air and water.
 D An object moves at constant velocity through the air and water.
- 1.4 The inertia of an object...
- A increases as the mass increases.
 B decreases as the mass increases.
 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 $4r$
 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 The carbocation fragment $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2^+$ can form 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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Michael Brown



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Table of Contents Physical Science Grade Paper Common Test March 2014

1. Understanding the eBook Physical Science Grade Paper Common Test March 2014
 - The Rise of Digital Reading Physical Science Grade Paper Common Test March 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade Paper Common Test March 2014
 - 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 Grade Paper Common Test March 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade Paper Common Test March 2014
 - Personalized Recommendations
 - Physical Science Grade Paper Common Test March 2014 User Reviews and Ratings
 - Physical Science Grade Paper Common Test March 2014 and Bestseller Lists
5. Accessing Physical Science Grade Paper Common Test March 2014 Free and Paid eBooks
 - Physical Science Grade Paper Common Test March 2014 Public Domain eBooks
 - Physical Science Grade Paper Common Test March 2014 eBook Subscription Services
 - Physical Science Grade Paper Common Test March 2014 Budget-Friendly Options

6. Navigating Physical Science Grade Paper Common Test March 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade Paper Common Test March 2014 Compatibility with Devices
 - Physical Science Grade Paper Common Test March 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade Paper Common Test March 2014
 - Highlighting and Note-Taking Physical Science Grade Paper Common Test March 2014
 - Interactive Elements Physical Science Grade Paper Common Test March 2014
8. Staying Engaged with Physical Science Grade Paper Common Test March 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade Paper Common Test March 2014
9. Balancing eBooks and Physical Books Physical Science Grade Paper Common Test March 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade Paper Common Test March 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade Paper Common Test March 2014
 - Setting Reading Goals Physical Science Grade Paper Common Test March 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade Paper Common Test March 2014
 - Fact-Checking eBook Content of Physical Science Grade Paper Common Test March 2014
 - 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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