

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 propanone
- 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 A constant number of different ions are released, but the number of different ions is not constant.
 C An infinite number of different ions are released, but the number of different ions is not constant.
 D An infinite number of different ions are released, but the number of different ions is constant.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight because it is not in contact with the ground.
 B An object is free of weight because it is not in contact with the ground.
 C An object is free of weight because it is not in contact with the ground.
 D An object is free of weight because it is not in contact with the ground.
- 1.4 The inertia of an object...
- A is the same for all objects.
 B is the same for all objects.
 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 $8r$

- 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 heavy.
 D The box is too light.
- 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 heavy.
 D The box is too light.

[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 A. (1)
 Write down the functional group of compound B. (1)
 Write down the functional group of compound C. (1)
 Write down the IUPAC name of compound B. (2)

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Table of Contents Grade 12 Final Physical Science Question Paper 2014 Leaking

1. Understanding the eBook Grade 12 Final Physical Science Question Paper 2014 Leaking
 - The Rise of Digital Reading Grade 12 Final Physical Science Question Paper 2014 Leaking
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Final Physical Science Question Paper 2014 Leaking
 - 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 Final Physical Science Question Paper 2014 Leaking
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Final Physical Science Question Paper 2014 Leaking

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

- Fact-Checking eBook Content of Grade 12 Final Physical Science Question Paper 2014 Leaking
- 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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