

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 $C_{10}H_{22}$ and $C_{10}H_{18}$
 B $C_{10}H_{18}$ and $C_{10}H_{16}$
 C $C_{10}H_{16}$ and $C_{10}H_{14}$
 D $C_{10}H_{14}$ and $C_{10}H_{12}$
- 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 less than 100N
 B Friction force is more than 100N
 C Friction force is equal to 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 less than 100N
 B Friction force is more than 100N
 C Friction force is equal to 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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Question Paper

S Ashworth



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Table of Contents Grade 1physical Science March 2controlled Test Question Paper

1. Understanding the eBook Grade 1physical Science March 2controlled Test Question Paper
 - The Rise of Digital Reading Grade 1physical Science March 2controlled Test Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1physical Science March 2controlled Test Question Paper
 - 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 1physical Science March 2controlled Test Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1physical Science March 2controlled Test Question Paper
 - Personalized Recommendations
 - Grade 1physical Science March 2controlled Test Question Paper User Reviews and Ratings
 - Grade 1physical Science March 2controlled Test Question Paper and Bestseller Lists
5. Accessing Grade 1physical Science March 2controlled Test Question Paper Free and Paid eBooks
 - Grade 1physical Science March 2controlled Test Question Paper Public Domain eBooks
 - Grade 1physical Science March 2controlled Test Question Paper eBook Subscription Services
 - Grade 1physical Science March 2controlled Test Question Paper Budget-Friendly Options
6. Navigating Grade 1physical Science March 2controlled Test Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1physical Science March 2controlled Test Question Paper Compatibility with Devices
 - Grade 1physical Science March 2controlled Test Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1physical Science March 2controlled Test Question Paper
 - Highlighting and Note-Taking Grade 1physical Science March 2controlled Test Question Paper
 - Interactive Elements Grade 1physical Science March 2controlled Test Question Paper

8. Staying Engaged with Grade 1physical Science March 2controlled Test Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1physical Science March 2controlled Test Question Paper
9. Balancing eBooks and Physical Books Grade 1physical Science March 2controlled Test Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1physical Science March 2controlled Test Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 1physical Science March 2controlled Test Question Paper
 - Setting Reading Goals Grade 1physical Science March 2controlled Test Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 1physical Science March 2controlled Test Question Paper
 - Fact-Checking eBook Content of Grade 1physical Science March 2controlled Test Question Paper
 - 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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