

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 ethanoic 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 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 as the object's velocity increases.
 B increases as the object's mass increases.
 C increases as the object's acceleration increases.
 D increases as the object's speed 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 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 of 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)

Northwest Grade 1physics Memorandum

G Thomas



Northwest Grade 1physics Memorandum:

The book delves into Northwest Grade 1physics Memorandum. Northwest Grade 1physics Memorandum is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Northwest Grade 1physics Memorandum, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Northwest Grade 1physics Memorandum
 - Chapter 2: Essential Elements of Northwest Grade 1physics Memorandum
 - Chapter 3: Northwest Grade 1physics Memorandum in Everyday Life
 - Chapter 4: Northwest Grade 1physics Memorandum in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Northwest Grade 1physics Memorandum. This chapter will elucidate the essential principles that must be understood to grasp Northwest Grade 1physics Memorandum in its entirety.
 4. In chapter 3, the author will examine the practical applications of Northwest Grade 1physics Memorandum in daily life. This chapter will showcase real-world examples of how Northwest Grade 1physics Memorandum can be effectively utilized in everyday scenarios.
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 6. In chapter 5, the author will draw a conclusion about Northwest Grade 1physics Memorandum. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Northwest Grade 1physics Memorandum.

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