

## 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  $C_2H_6$  and  $C_3H_8$   
 B  $C_2H_6$  and  $C_3H_6$   
 C  $C_2H_4$  and  $C_3H_6$   
 D  $C_2H_4$  and  $C_3H_8$
- 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 Ethane reacting with oxygen to form ethanoic acid and water  
 C Ethane reacting with oxygen to form ethane and water  
 D Ethane reacting with chlorine to form ethane and hydrogen chloride
- 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 velocity of 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 Frictional force is zero  
 B Frictional force is more than 100N  
 C Frictional force is less than 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 Frictional force is zero  
 B Frictional force is more than 100N  
 C Frictional force is less than 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:  $CH_3CH_2CH_2OH$

- 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)

# Physical Science Paper February March 2memorandum

**Lei Shi**



**Physical Science Paper February March 2memorandum:**

## **Physical Science Paper February March 2memorandum** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Physical Science Paper February March 2memorandum**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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