

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 A constant number of different ions are released.
 B When a certain amount of acid is added to a given amount of alkali, the reaction is complete.
 C An alkali solution turns a universal indicator from red to blue.
 D An alkali solution reacts with an acid to form a salt.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight because it is not touching the ground.
 B An object is weightless because it is not being pulled down by gravity.
 C An object is free of weight because it is not being pulled down by gravity.
 D An object is free of weight because it is not being pulled down by gravity.
- 1.4 The inertia of an object...
- A increases as the mass of the object increases.
 B decreases as the mass of the object increases.
 C is the same for all objects of the same mass.
 D depends on the frictional force on the object 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 14 of his weight (E_E) on the surface of the Earth?
- A r
 B $2r$
 C $3r$
 D $4r$

- 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 smooth.
 D The box is too rough.
- 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 smooth.
 D The box is too rough.

[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 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 B. (2)
 2.3.2 IUPAC name of compound C. (2)

Physical Science Grade12 2014 March Memo

Michal Rosen-Zvi



Physical Science Grade12 2014 March Memo:

This book delves into Physical Science Grade12 2014 March Memo. Physical Science Grade12 2014 March Memo is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Grade12 2014 March Memo, encompassing both the fundamentals and more intricate discussions.

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