

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 A constant number of different ions are released.
 B A new element is formed and the original quantities of the elements are conserved.
 C An ionic substance gives up electrons to form a metal.
 D An ionic compound is made by combining acids.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight and floats in space.
 B An object is free of weight and floats in water.
 C An object is free of weight and floats in air.
 D An object is free of weight and floats in a vacuum.
- 1.4 The inertia of an object...
- A is the same for all objects.
 B is the same for all objects of the same mass.
 C is the same for all objects of the same volume.
 D is the same for all objects of the same shape.

- 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 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 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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Memo

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