

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 A constant number of different ions are released, but the number of different ions released is not constant.
 C An infinite number of different ions are released, but the number of different ions released is not constant.
 D An infinite number of different ions are released, but the number of different ions released is constant.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight because it is not in contact with the ground.
 B An object is free of weight because it is not in contact with the ground.
 C An object is free of weight because it is not in contact with the ground.
 D An object is free of weight because it is not in contact with the ground.
- 1.4 The inertia of an object...
- A is the same for all objects.
 B is the same for all objects.
 C is the same for all objects.
 D is the same for all objects.

- 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 $8r$

- 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 heavy.
 D The box is too light.
- 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 heavy.
 D The box is too light.

[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 The carbocation formed by the reaction of compound A with water is given below. 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)

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measure an appropriate volume of each liquid eg 25 cm³ place one of the

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exothermic than with strong acids and bases for example one source which gives the enthalpy change of neutralization of
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eg 1 HCl aq + NaOH aq → NaCl aq + H₂O l for which ΔH = 57 kJ mol⁻¹ eg 2 HNO₃ aq + KOH aq → KNO₃ aq + H₂O l for which ΔH = 57 kJ mol⁻¹

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