

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 When a certain amount of acid is added to a given amount of metal, the volume of gas evolved is constant.
 C An alkali solution reacts with a given amount of metal to form a certain amount of gas.
 D A fixed amount of metal reacts with a certain amount of acid to form a certain amount of gas.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces.
 B An object is free of contact forces and is in a state of free fall.
 C An object is free of contact forces and is in a state of free fall.
 D An object is free of contact forces and is in a state of free fall.
- 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 1/4 of his weight (E_E) on the surface of the Earth?
- A r
 B $2r$
 C $4r$
 D $16r$

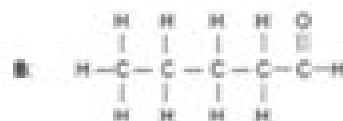
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.
 B The box is too light.
 C The box is too smooth.
 D The box is too rough.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this 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. (1)
 Write down the functional group of compound B. (1)
 Write down the functional group of compound C. (1)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the IUPAC name of compound B. (2)

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various influences on his work Finally a set of historiographical issues important for the history of physics are discussed and the chronological conclusion of the volume is an article on the Solvay Conference of 1933 For physicists interested in the history of their discipline historians and philosophers of science and graduate students in these and related disciplines

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