

## 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, the colour of a gas indicator also changes.  
 C An alkali solution turns a weakly acidic solution from pink to colourless.  
 D An alkali solution turns a weakly acidic solution from colourless to pink.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight (the only situation this can occur).  
 B An object is weightless when it is in a state of free fall.  
 C An object is in a state of weightlessness when it is in a state of free fall.  
 D An object is in a state of weightlessness when it is in a state of free fall.
- 1.4 The inertia of an object...
- A is measured by its mass and weight.  
 B is the resistance to applied force in the opposite direction.  
 C is the resistance to acceleration in the direction of force.  
 D increases as 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)

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**Michael Hoelscher**



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