

## 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 butanol
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A An object moving with constant acceleration.  
 B An object moving with constant speed in a straight line.  
 C An object moving with constant speed in a circular path.  
 D An object moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moves at constant velocity through the air.  
 B An object moves with constant velocity through the air.  
 C An object moves with constant velocity through the air.  
 D An object moves with constant velocity through the air.
- 1.4 The inertia of an object...
- A increases as the object's velocity increases.  
 B increases as the object's mass increases.  
 C increases as the object's acceleration increases.  
 D increases as the object's speed 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 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 The carbocation fragment  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2^+$  can form 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)

# Physical Science Paper 1084e 2014

**Padhraic Smyth**



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