

## 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 1.6. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A  $C_2H_6$  and  $C_3H_8$   
 B  $C_2H_6$  and  $C_3H_6$   
 C  $C_2H_4$  and  $C_3H_6$   
 D  $C_2H_4$  and  $C_3H_8$
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A Reaction involving different ions occurring.  
 B An oxidation reaction involving the oxygen gas molecules with hydrogen.  
 C An acid-base reaction giving a salt and water.  
 D An oxidation reaction involving acetaldehyde.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object in free fall under the influence of the force of gravity.  
 B An object in free fall under the influence of the force of gravity.  
 C An object in free fall under the influence of the force of gravity and normal force.  
 D An object in free fall under the influence of the force of gravity and normal force.
- 1.4 The inertia of an object ...
- A increases as the mass of the object increases.  
 B increases as the applied force on the object increases.  
 C is the resistance to acceleration for the object of mass  $m$ .  
 D increases as the frictional force on the object increases.

- 1.5 An astronaut has a weight  $E_1$  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 ( $E_1$ ) 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 Friction force is zero.  
 B Friction force is more than 100N.  
 C Friction force is less than 100N.  
 D None of the above.

- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:

A Friction force is zero.  
 B Friction force is more than 100N.  
 C Friction force is less than 100N.  
 D None of the above.

[14]

### QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$

- 2.1 Write down the functional groups of each of the above compounds. The carbon to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (1)
- 2.3 Write down the:  
 2.3.1 IUPAC name of compound A (1)  
 2.3.2 IUPAC name of compound B (2)

# Febr March 2015 Physical Sciences Grade12

**Michael Seilmaier**



**Febr March 2015 Physical Sciences Grade12:**

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web once all of the material has solidified at the time indicated by point c the cooling will continue at a rate determined by

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