

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 A reaction occurring with the release of gas bubbles.
 C An ionic reaction occurring with the formation of a precipitate.
 D An ionic reaction involving acidification.
- 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 the force of air resistance.
 D An object in free fall under the influence of the force of gravity and the force of air resistance.
- 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 Frictional force is zero.
 B Frictional force is more than 100N.
 C Frictional 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 Frictional force is zero.
 B Frictional force is more than 100N.
 C Frictional 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)

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