

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 butanoic acid
- 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 A new element is formed and the original quantities of the reactants are conserved.
 C An ionic substance and a molecular substance are formed.
 D An ionic compound is produced containing covalent bonds.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces and is in free fall.
 B An object is moving in a circle at a constant speed but is not accelerating.
 C An object is in a state of free fall where the only force acting on it is the force of gravity.
 D An object is in a state of free fall where the only force acting on it is the force of gravity.
- 1.4 The inertia of an object...
- A is measured by its mass and weight.
 B is the resistance to applied forces in the opposite direction.
 C is the resistance to acceleration in the direction of motion.
 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 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 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: $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group which reacts with the carbon 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 A. (2)
 2.3.2 IUPAC name of compound B. (2)

Physical Science Exemplar 2014 Paper Grade 12

K Morrison



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