

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 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 to a given amount of base, the reaction is complete.
 C An alkali solution turns a universal indicator from red to blue.
 D An alkali solution turns a universal indicator from blue to red.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight because it is in a state of free fall.
 B An object is weightless because it is in a state of free fall.
 C An object is weightless because it is in a state of free fall.
 D An object is weightless because it is in a state of free fall.
- 1.4 The inertia of an object...
- A is measured by its mass.
 B is the resistance to change in its state of motion.
 C is the resistance to change in its state of motion.
 D is the resistance to change in its state of motion.

- 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 $4r$

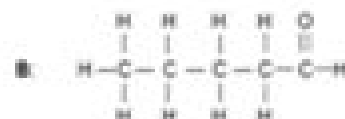
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.
 B The box is too light.
 C The box is too smooth.
 D The box is too rough.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this 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. (1)
 Write down the functional group of compound B. (1)
 Write down the functional group of compound C. (1)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the IUPAC name of compound B. (2)

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web activity 4 potential energy and kinetic energy identify whether the objects in the given situations possess potential energy or kinetic energy write your answers on a separate sheet of paper bird flying log in a fireplace watermelon on a desk car travelling on the highway car sitting in a driveway bunch of coconut stick on a table

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web potential energy is stored energy the formula for the potential energy of an object is where m equals mass in kilograms g is the acceleration of gravity and h equals the height of the object the mass m of the object times the acceleration of gravity g is the same as the weight of the object in newtons