

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 involved.
 B Aqueous solution of a substance just dissolves in water and does not react.
 C An ionic substance forms a solid compound with water.
 D An ionic compound is made by neutralisation.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight and falls towards the ground.
 B An object is free of weight and falls towards the ground.
 C An object is free of weight and falls towards the ground.
 D An object is free of weight and falls towards the ground.
- 1.4 The inertia of an object...
- A is the same for all objects.
 B is the same for all objects.
 C is the same for all objects.
 D is the same for all objects.

- 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 heavy.
 D The box is too light.

- 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 heavy.
 D The box is too light.

[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 C and name the cation 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)

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Jessica J Manson



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Randomistas Andrew Leigh, 2018-03-01 Randomised tests are carried out on us every day by supermarkets search engines online dating sites political parties and direct marketers But how do these tests work Are there any ethical issues And what do they reveal about our choices In Randomistas Andrew Leigh tells the stories of radical researchers who overturned conventional wisdom in medicine politics business law enforcement and more From finding the cure to scurvy to discovering what policies really improve literacy rates randomistas have shaped life as we know it but they often had to fight to conduct their trials and have their findings implemented The subject of this book could hardly be more vital are we humble enough to admit we may be wrong and do we care enough to learn Randomistas is rigorous impassioned and tremendous fun Everyone should read it Tim Harford author of The Undercover Economist A tour de force David Halpern author of Inside the Nudge Unit Reveals how data and experiments can make the world a better place Dean Karlan professor of economics at Yale

Leave no child behind UNESCO, 2022-06-20 To leave no child behind UNESCO developed the first global report of this scope on boys disengagement from education bringing together qualitative and quantitative evidence from over 140 countries This report provides an overview on the global situation on boys disengagement from and disadvantage in education It identifies factors influencing boys participation progression and learning outcomes in education It also analyses responses by governments and partners and examines promising policies and programmes Finally it includes recommendations on how to engage boys with education and address disadvantage While girls continue to face severe disadvantages and inequalities in education the report shows that boys in many countries are at greater risk than girls of repeating grades failing to complete different education levels and having poorer learning outcomes in school No less than 132 million boys of primary and secondary school age are out of school They urgently require support As this report shows supporting boys does not mean that girls lose out and vice versa Addressing boys disengagement not only benefits boys learning employment opportunities income and well being it is also highly beneficial for achieving gender equality and desirable economic social and health outcomes

Composites Industry Abstracts, 1996 **Physical Science**, 1999-11-01

Physical Science Grade 1 Steps To Literacy Staff, 2014-06-01 **Physical Science (Grade 1) (Reading in Science Workbook) (373-5)** MCGRAWHILL, 2004-01-01

Physical Science: 10A : Learning about energy Tristan F. Nicholas, 2005 A easy reader that explains the different forces of energy Contains vocabulary words battery electricity energy fuel heat and shadow

Creative Science Curriculum STEAM Project Guide, 2015 **Physical Science and Engineering Science, Level 1** James Ellis, 1979

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