

## 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 precipitate when mixed with another solution.  
 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 floats in space.  
 B An object is free of weight and floats in water.  
 C An object is free of weight and floats in air.  
 D An object is free of weight and floats in a vacuum.
- 1.4 The inertia of an object...
- A is the same for all objects.  
 B is the same for all objects of the same mass.  
 C is the same for all objects of the same volume.  
 D is the same for all objects of the same shape.

- 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 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 and the name of 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 B. (2)  
 2.3.2 IUPAC name of compound C. (2)

# February March 2014 Caps Question Paper Physical Sciences

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Department of Internal Affairs**



## **February March 2014 Caps Question Paper Physical Sciences:**

Report Series: Committee on Astronomy and Astrophysics National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Space Studies Board, Committee on Astronomy and Astrophysics, 2017-06-08 The 2010 astronomy and astrophysics decadal survey New Worlds New Horizons in Astronomy and Astrophysics laid out an exciting portfolio of recommended activities to guide the agencies research programs over the period 2012 2021 The newly constituted Committee on Astronomy and Astrophysics CAA is tasked with monitoring the progress of the survey s recommended priorities The CAA met in conjunction with Space Science Week 2017 in Washington D C on March 28 30 2017 This was the first meeting at which the CAA could produce a report and in advance of that meeting the CAA received a question from NASA about an upcoming Small Explorer SMEX mission call This report addresses whether there may or may not be sufficient compelling science motivations for a SMEX sized mission to justify a SMEX Announcement of Opportunity AO in 2018 or 2019 as is currently planned *Simply Electrifying* Craig R. Roach, 2017-07-25 Selected for J P Morgan s 2018 Holiday Reading List Imagine your life without the internet Without phones Without television Without sprawling cities Without the freedom to continue working and playing after the sun goes down Electricity is at the core of all modern life It has transformed our society more than any other technology Yet no book offers a comprehensive history about this technological marvel Until now *Simply Electrifying The Technology that Transformed the World* from Benjamin Franklin to Elon Musk brings to life the 250 year history of electricity through the stories of the men and women who used it to transform our world Benjamin Franklin James Watt Michael Faraday Samuel F B Morse Thomas Edison Samuel Insull Albert Einstein Rachel Carson Elon Musk and more In the process it reveals for the first time the complete thrilling and often dangerous story of electricity s historic discovery development and worldwide application Electricity plays a fundamental role not only in our everyday lives but in history s most pivotal events from global climate change and the push for wind and solar generated electricity to Japan s nuclear accident at Fukushima and Iran s pursuit of nuclear weapons Written by electricity expert and four decade veteran of the industry Craig R Roach *Simply Electrifying* marshals in fascinating narrative detail the full range of factors that shaped the electricity business over time science technology law politics government regulation economics business strategy and culture before looking forward toward the exhilarating prospects for electricity generation and use that will shape our future Econ Focus ,2015

**Effects of Physical Exercise on Brain and Cognitive Functioning** Soledad Ballesteros, Laura Piccardi, Joshua Oon Soo Goh, 2022-06-06 **Atlantis Rising Magazine - 110 March/April 2015** J. Douglas Kenyon, 2015-03-01 Inside this full color digital edition PROTO SCIENCE Free Energy Gravity Control Alternative Science Ezekiel s Wheel and Other Cutting Edge Developments Jerry Decker THE FORBIDDEN ARCHAEOLOGIST The Buenos Aires Skull By Michael Cremo LOST HISTORY Debate Over the True Home of the Hebrew Lawgiver Still Rages By RAND ROSE FLEM ATH ALTERNATIVE

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