

## 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 ethanoic acid  
 C Ethanol and propanoic acid  
 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 other elements are conserved.  
 C An ionic substance gives up electrons to form a metal.  
 D An ionic compound is made by combining an acid and an alkali.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces such as friction and the ground.  
 B An object is moving in a circle at a constant speed but the forces are not balanced.  
 C An object is in a free-fall condition where the only force acting on it is the force of gravity.  
 D An object is in a free-fall condition where the only force acting on it is the force of gravity.
- 1.4 The inertia of an object...
- A increases as the mass of the object increases.  
 B is the resistance to change in the object's motion.  
 C is the resistance to change in the object's velocity.  
 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 is present in 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)

# Physical Science Gr 12 Fsdoe March 2015

**Ying Liu**



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Glencoe Physical Science Charles W. McLaughlin,2012      Physical Science ,      **Physical Science** ,2015-03-16 Physical Science for grades 5 to 12 is designed to aid in the review and practice of physical science topics Physical Science covers topics such as scientific measurement force and energy matter atoms and elements magnetism and electricity The book includes realistic diagrams and engaging activities to support practice in all areas of physical science The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series is aligned to current science standards      **Physical Science Grade 12** ,2002

**Physical Science for Gr. 12** J. M. Lucas,2008      **Exploring Matter and Energy, Grades 6-12** Globe Fearon,1999-01-01      *Core Objectives Mid-year and Final Examinations* Detroit Public Schools,1983      *Resource Guide in Physical Science* Kalamazoo Public Schools (Kalamazoo, Mich.). Department of Instruction and Guidance,1960      **Physical Science Workbook** ,1995      **Supplementary exercises, gr 12: physical Science** ,      **Physical Science, student note book: Grade 12** ,      **North West Shelf Project** John Clark,1988      **Physical science investigations** Charles Lester Bickel,Neal D. Eigenfeld,John Clarence Hogg,1973      **Physical Science** ,1986      **Physical science** Nuffield Advanced Science Project,1973      **Modules** McDougal Littell Incorporated,2005-01-01      Holt Science Spectrum Physical Science Chapter 13 Resource File: Work and Energy Holt Rinehart & Winston,2008      *Matter and Energy* McDougal Littell Incorporated,2005      **Winners! - Physical Science Complete Set(12 X 1)** Macmillan,2013-09-01      *Glencoe Physical Science* McLaughlin,1999-12

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In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Physical Science Gr 12 Fsdoe March 2015**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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