

## 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 falls towards the centre of the Earth.  
 B An object is free of weight and falls towards the centre of the Earth.  
 C An object is free of weight and falls towards the centre of the Earth.  
 D An object is free of weight and falls towards the centre of the Earth.
- 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 1/4 of his weight ( $E_E$ ) on the surface of the Earth?
- A  $r$   
 B  $2r$   
 C  $4r$   
 D  $8r$

- 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 less than 100N.  
 B Frictional force is more than 100N.  
 C Frictional force is equal to 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 less than 100N.  
 B Frictional force is more than 100N.  
 C Frictional force is equal to 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 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)

# Grade 12 Physical Science Question Paper March 2014

**Faan Jordaan, Retha Jordaan**



## Grade 12 Physical Science Question Paper March 2014:

Women's Under-Representation in the Engineering and Computing Professions: Fresh Perspectives on a Complex Problem Kathleen Buse, Catherine Hill, Romila Singh, 2018-06-21 Understanding the many complexities that define gender inequality has been described by researchers as a grand challenge. Novel insights, innovation, a broader community to conduct research and to ascertain effective interventions are essential in the challenge to create organizations that are gender equal. As such, this Research Topic in *Frontiers in Psychology* addresses the underrepresentation of women in engineering and computing as a complex but solvable problem. This Research Topic seeks to inform the global community about advances in understanding the underrepresentation of women in engineering and computing with a focus on what enables change. Further, this Topic will promote fresh perspectives, innovative methodologies, and mixed method approaches important to accelerating the pace of change. Educational Research R. Burke Johnson, Larry B. Christensen, 2024-09-17 *Educational Research: Quantitative, Qualitative, and Mixed Approaches* offers an accessible introduction to research methods. Providing an in-depth understanding of research methodologies in education, this book illustrates how to read and critically evaluate published research, how to write a proposal, construct research tools, and conduct empirical research using qualitative, quantitative, and mixed methods research approaches. **Smart Energy Research. At the Crossroads of Engineering, Economics, and Computer Science** Christian Derksen, Christoph Weber, 2017-08-29 This volume consists of revised selected papers presented at the 3rd and 4th International Conference on Smart Energy Research (SmartER Europe 2016 and 2017) held in Essen, Germany, in February 2016 and 2017. The 13 full papers included in this volume were carefully reviewed and selected from 25 submissions. The papers discuss recent advances and experiences in building and using new IT-based solutions for Smart Grids and Smart Markets, combining the knowledge of different disciplines such as engineering, business management, and economics, as well as computer science. They reflect the versatility and the complexity of the transformation process in the energy sector and also show the great need for research that is required to achieve the high targets for a digitized and sustainable energy landscape. Australian Education Index, 1980 *The Routledge Handbook of Religion, Politics and Ideology* Jeffrey Haynes, 2021-08-14 This comprehensive handbook examines relationships between religion, politics, and ideology with a focus on several world religions: Christianity, Islam, Buddhism, Hinduism, and Judaism in a variety of contexts, regions, and countries. Relationships between religion, politics, and ideology help mould people's attitudes about the way that political systems, both domestically and internationally, are organised and operate. While conceptually separate, religion, politics, and ideology often become intertwined, and as a result, their relationships evolve over time. This volume brings together a number of expert contributors who explore a wide range of topical and controversial issues, including gender, nationalism, communism, fascism, populism, and Islamism. Such topics inform the overall aim of the handbook to provide a comprehensive summary of the relationships between religion, politics, and ideology, including basic issues and new

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