

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 ethyl ethanoate
 D Ethanol and ethene
- 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 A new element is formed and the original reactants are destroyed.
 C An electron has been gained by a particular atom.
 D An electron has been lost by a particular atom.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces.
 B An object is moving with a constant velocity.
 C An object is in a state of free fall.
 D An object 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 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 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 Grade 1exam Papers

Clive Long



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General Science Quarterly, 1928 *Educational Assessment in a Time of Reform* Coert Loock, Vanessa Scherman, 2019-11-20

Educational Assessment in a Time of Reform provides background information on large scale examination systems more generally and the South African examination specifically It traces the reforms in the education system of South Africa since 1994 and provides a description of the advances in modern test theory that could be considered for future standard setting endeavours At the heart of the book is the debate on whether the current standard of education in Africa is good enough If not then how can it be improved The aim of this book is to provide a point of departure for discussions on standard setting quality assurance equating of examinations and assessment approaches From this point of departure recommendations for practices in general and the exit level Grade 12 examination results in particular can be made This book is ideal reading for principals teachers academics and researchers in the fields of educational assessment measurement and evaluation

The Journal of Education, 1893 **The Scottish Educational Journal**, 1922 **Assessment of Learning Outcomes in Higher Education** Olga Zlatkin-Troitschanskaia, Miriam Toepper, Hans Anand Pant, Corinna Lautenbach, Christiane Kuhn, 2018-03-22 This book offers a comprehensive overview of current innovative approaches to assessing generic and domain specific learning outcomes in higher education at both national and international levels It discusses the most

significant initiatives over the past decade to develop objective valid and reliable assessment tools and presents state of the art procedures to adapt and validate them for use in other countries The authors highlight key conceptual and methodological challenges connected with intra national and cross national assessment of learning outcomes in higher education introduce novel approaches to improving assessment evaluation testing and measurement practices and offer exemplary implementation frameworks Further they examine the results of and lessons learned from various recent world renowned research programs and feasibility studies and present results from their own studies to provide new insights into how to draw valid conclusions about learning outcomes achieved in various contexts *The Educational Times, and Journal of the College of Preceptors* ,1892

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