



GRADE 10 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 2: CHEMISTRY

SECTION A

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 in your answer book.

1.1 Which of the following is an example of a mixture?

- A distilled water
- B diamond
- C sodium chloride
- D syngas

1.2 Element with the electron configuration $1s^2, 2s^2, 2p^4$

- A oxygen
- B carbon
- C helium
- D nitrogen

1.3 The chemical formula of sodium sulfide

- A NaS
- B Na_2S
- C NaS_2
- D Na_2S_2

1.4 Strongest intermolecular force found in water?

- A ion-dipole
- B Dipole-dipole
- C Van der Waals
- D Hydrogen bond

1.5 The particles of a gas ...

- A are tightly packed
- B vibrate against each other
- C move freely and rarely touch
- D move over one another

1.6 Element with the highest electronegativity?

- A Hydrogen
- B Helium
- C Oxygen
- D Fluorine

1.7 When an atom of Group 16 ionises to become an ion, the

- A mass number of the atom will increase
- B atomic number of the atom will decrease
- C number of electrons will decrease
- D number of electrons will increase

1.8 An element with the following Aufbau diagram will be classified as a

| | |
|-------------|----|
| $1s^2$ | 2s |
| $2s^2 2p^4$ | 3s |
| $3s^2$ | 3p |
| $3d^5$ | 4s |

- A noble gas
- B halogen
- C alkali earth metal
- D alkali metal

Physical Science Exemplar November Paper 2 2013

Cynthia J. Girman, Mary E. Ritchey



Physical Science Exemplar November Paper 2 2013:

Sport Development in the United States Peter Smolianov,Dwight Zakus,Joseph Gallo,2014-09-15 The development of both elite high performance sport and mass participation grassroots level sport are central concerns for governments and sports governing bodies This important new study is the first to closely examine the challenges and opportunities for sports development in the United States a global sporting giant with a unique market driven sporting landscape Presenting an innovative model of integrated sports development the book explores the inter relationship between elite and mass sport across history drawing on comparative international examples from Australia to the former USSR and Eastern bloc countries At the heart of the book is an in depth empirical study of three traditional and emerging sports in the US tennis soccer and rugby that offer important lessons on the development of elite sport methods for increasing participation and the establishment of new sports in new markets No other book has attempted to model sports development in the United States in such depth before Therefore this should be essential reading for all students researchers administrators or policy makers with an interest in sports development sports management sports policy or comparative international sport studies

Service Research and Innovation Amin Beheshti,Mustafa Hashmi,Hai Dong,Wei Emma Zhang,2018-03-02 This book constitutes revised selected papers from the Australasian Symposium on Service Research and Innovation ASSRI held in Sydney Australia The 11 full papers presented from ASSRI 2017 which took place during October 19 20 2017 were carefully reviewed and selected from 26 submissions The volume also contains 3 papers from ASSRI 2015 which took place during November 2 3 2015 and one invited paper on the software development processes The papers were organized in topical sections named invited talk modelling design quality social and application The Routledge Handbook of Historical Linguistics Claire Bowern,Bethwyn Evans,2015-03-24 The Routledge Handbook of Historical Linguistics provides a survey of the field covering the methods which underpin current work models of language change and the importance of historical linguistics for other subfields of linguistics and other disciplines Divided into five sections the volume encompass a wide range of approaches and addresses issues in the following areas historical perspectives methods and models language change interfaces regional summaries Each of the thirty two chapters is written by a specialist in the field and provides a introduction to the subject an analysis of the relationship between the diachronic and synchronic study of the topic an overview of the main current and critical trends and examples from primary data The Routledge Handbook of Historical Linguistics is essential reading for researchers and postgraduate students working in this area Chapter 28 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 3 0 license <https://www.routledgehandbooks.com/doi/10.4324/9781315794013/ch28> Marine Navigation and Safety of Sea Transportation Adam Weintrit,2013-06-04 The TransNav 2013 Symposium held at the Gdynia Maritime University Poland in June 2013 has brought together a wide range of participants from all over the world The program has offered a variety of

contributions allowing to look at many aspects of the navigational safety from various different points of view Topics presented

International Conference on Applied Technologies Miguel Botto-Tobar, Marcelo Zambrano Vizuet, Sergio Montes León, Pablo Torres-Carrión, Benjamin Durakovic, 2024-05-29 The three volume proceedings set CCIS 2049 2050 and 2051 constitutes the refereed proceedings of the 5th International Conference on Applied Technologies on International Conference on Applied Technologies ICAT 2023 held in Samborondon Ecuador November 22 24 2023 The 66 papers included in these proceedings were carefully reviewed and selected from 250 submissions They are organized in sections by topics as follows Intelligent Systems Communications e Commerce e Government e Learning Electronics Machine Vision Security Technology Trends and Z AT for Engineering Applications

Pragmatic Randomized Clinical Trials Cynthia J. Girman, Mary E. Ritchey, 2021-04-08 *Pragmatic Randomized Clinical Trials Using Primary Data Collection and Electronic Health Records* addresses the practical aspects and challenges of the design implementation and dissemination of pragmatic randomized trials also sometimes referred to as practical or hybrid randomized trials While less restrictive and more generalizable than traditional randomized controlled trials such trials have specific challenges which are addressed in this book The book contains chapters encompassing common designs along with advantages and limitations of such designs analytic aspects in planning trials and estimating sample size and how to use patient partners to help design and operationalize pragmatic randomized trials Pragmatic trials conducted using primary data collection and trials embedded in electronic health records including electronic medical records and administrative insurance claims are addressed This comprehensive resource is valuable not only for pharmacoepidemiologists biostatisticians and clinical researchers but also across the biomedical field for those who are interested in applying pragmatic randomized clinical trials in their research Addresses typical designs and challenges of pragmatic randomized clinical trials pRCTs Encompasses analytic aspects of such trials Discusses real cases on operational challenges in launching and conducting pRCTs in electronic health records

Issues in Aging Mark Novak, 2018-02-02 *Issues in Aging* combines social psychological biological and philosophical perspectives to present a multifaceted picture of aging Novak illustrates both the problems and the opportunities that accompany older age This text helps students understand the tremendous variability in aging and introduces them to careers working with older adults This new edition reflects the continued changes in the way we age The fourth edition has been updated to include emerging issues in aging These include the prevalence of HIV AIDs in later life current research on mental potential in old age the creation of age friendly cities and new options for end of life care Each chapter begins with a set of learning objectives to guide students in their reading and concludes with a list of main points questions for discussion or study suggested readings and relevant web sites to consult Each chapter also includes up to date charts and graphs as well as key terms to help students understand the issues presented Break out boxes reveal the human side of aging through the stories of individuals in real life and in the media

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