

Section A [15 marks]

Answer **all** questions in this section.

1 Tetraethyllead(IV), $(\text{CH}_3\text{CH}_2)_4\text{Pb}$, is added to petroleum as an anti-knock agent. $(\text{CH}_3\text{CH}_2)_4\text{Pb}$ is prepared from ethane, CH_3CH_3 , according to the following reactions:

Which statement about the reactions is **not** true?

- A One mole of Cl_2 produces one mole of $\text{CH}_3\text{CH}_2\text{Cl}$.
 - B Four moles of Cl_2 produce one mole of $(\text{CH}_3\text{CH}_2)_4\text{Pb}$.
 - C One mole of HCl is formed for each mole of $(\text{CH}_3\text{CH}_2)_4\text{Pb}$ produced.
 - D Four moles of CH_3CH_3 is required for each mole of $(\text{CH}_3\text{CH}_2)_4\text{Pb}$ produced.
- 2 Gas X is collected in a 250 cm^3 volumetric flask at $25\text{ }^\circ\text{C}$ until the pressure of the gas is 73.5 kPa . The mass of X in the flask is 0.118 g at $25\text{ }^\circ\text{C}$. What is the mass of 1 mol of X ?
[The gas constant, R , is $8.31\text{ J K}^{-1}\text{ mol}^{-1}$.]
- A 7.42 g B 11.3 g C 14.6 g D 15.9 g
- 3 An atom M has seven valence electrons and forms a stable M^{2+} ion in an aqueous solution. What is the electronic configuration of atom M ?
- A $1s^2 2s^2 2p^6 3s^2 3p^3$
 B $1s^2 2s^2 2p^6 3s^2 3p^6 3d^6$
 C $1s^2 2s^2 2p^6 3s^2 3p^6 3d^6 4s^2$
 D $1s^2 2s^2 2p^6 3s^2 3p^6 3d^7 4s^2$
- 4 Which compound has an ionic bond?
- A HCl B BeCl_2 C AlBr_3 D $\text{C}_6\text{H}_5\text{NH}_2\text{Br}$
- 5 The Lewis structures of molecules HF , H_2O and NH_3 are shown respectively below.



Which statement about the molecules is true?

- A HF and H_2O molecules are planar.
- B H_2O molecule is a stronger Lewis base than NH_3 molecule.
- C The boiling points of the molecules increase in the order of H_2O , HF , NH_3 .
- D The hydrogen bonds formed by the molecules decrease in the order of HF , H_2O , NH_3 .

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Chemistry of Renewables Arno Behr, Thomas Seidensticker, 2020-10-29 This textbook introduces the industrial production and processing of natural resources It is divided into six major topics fats and oils carbohydrates lignin terpenoids other natural products biorefinery which are divided into a total of 20 chapters Each chapter is self contained and therefore a compact learning unit which can be worked on by students in self study or presented by lecturers Clear illustrations flow diagrams apparatus drawings and photos facilitate the understanding of the subject matter All chapters end with a succinct summary the Take Home Messages Each chapter is supplemented by ten short test questions which can be solved quickly after working through the chapter the answers are at the end of the book All chapters contain bibliographical references that focus on essential textbooks and reference works As a prior knowledge only basic knowledge of chemistry is required

Geobiotechnological Solutions to Anthropogenic Disturbances Mark Anglin Harris, 2016-09-22 This book offers a problem and solution approach to environmental remediation in mining including the environmentally sustainable utilization of waste materials from the mining industry It largely comprises articles published in Springer journals which have been thoroughly revised and expanded With supplementary data and illustrations it discusses specific problem areas in relevant Caribbean locations and provides an overview of geotechnical and microbial solutions to prevent post mining deterioration in this area

K-12 STEM Education: Breakthroughs in Research and Practice Management Association, Information Resources, 2017-10-31 Education is vital to the progression and sustainability of society By developing effective learning programs this creates numerous impacts and benefits for future generations to come K 12 STEM Education Breakthroughs in Research and Practice is a pivotal source of academic material on the latest trends techniques technological tools and scholarly perspectives on STEM education in K 12 learning environments Including a range of pertinent topics such as instructional design online learning and educational technologies this book is an ideal reference source for teachers teacher educators professionals students researchers and practitioners interested in the latest developments in K 12 STEM education

Building and Delivering Sustainability Solutions: Insights, Methods, and Case-Studies Nathaniel K. Newlands, Tracy A. Porcelli, Andries B. Potgieter, Louis Kouadio, Alfredo Huete, Wei Guo, 2019-10-18 Sustaining ecosystems to deliver what people need and value while mitigating and adapting to global climate change and extreme event impacts presents a complex set of environmental economic and social challenges in ensuring resilient and sustainable food production The Climate Smart Landscape CSL approach has emerged as an integrated management strategy to address the increasing pressures on agricultural production ecosystem conservation rural livelihoods climate change mitigation and adaptation Deploying cheaper more accurate and efficient technology enables the harnessing of big data for use in solving sustainability challenges With improved integrated analytical frameworks statistical approaches spatially explicit models and indices the CSL approach can be further developed and applied for more resilient productive and sustainable ecosystems

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21st Century Homestead: Sustainable Agriculture I Marlon Henkel,2015-02-22 21st Century Homestead Sustainable Agriculture I contains the first part of everything you need to stay up to date on sustainable agriculture *Fluid Injection in Deformable Geological Formations* Benjamin Loret,2018-10-06 This book offers an introduction to the geomechanical issues raised by both the extraction of actual and potential energy resources and by the treatment of the ensuing environmental concerns Discussions of the operations of injection of fluids into and withdrawal from geological formations link the chapters each devoted to a particular technical aspect or scientific issue or to a particular energy resource Subjects are ordered according to their industrial applications including enhanced oil and gas recovery gas hydrates enhanced geothermal systems hydraulic fracturing and carbon dioxide sequestration An overview of the industrial research and simulation aspects for each subject is provided Fluid Injection in Deformable Geological Formations will be of interest to academic and industrial researchers in a wide variety of fields including computational mechanics civil engineering geotechnical engineering and geomechanics engineering seismology petroleum engineering reservoir engineering and engineering geology *Transactions of the ASAE*. American Society of Agricultural Engineers,1970 Comprehensive Medicinal Chemistry III ,2017-06-03 Comprehensive Medicinal Chemistry III Eight Volume Set provides a contemporary and forward looking critical analysis and summary of recent developments emerging trends and recently identified new areas where medicinal chemistry is having an impact The discipline of medicinal chemistry continues to evolve as it adapts to new opportunities and strives to solve new challenges These include drug targeting biomolecular therapeutics development of chemical biology tools data collection and analysis in silico models as predictors for biological properties identification and validation of new targets approaches to quantify target engagement new methods for synthesis of drug candidates such as green chemistry development of novel scaffolds for drug discovery and the role of regulatory agencies in drug discovery Reviews the strategies technologies principles and applications of modern medicinal chemistry Provides a global and current perspective of today s drug discovery process and discusses the major therapeutic classes and targets Includes a unique collection of case studies and personal essays reviewing the discovery and development of key drugs **The Governance of Agriculture in Post-Brexit UK** Irene Antonopoulos,Matt Bell,Aleksandra Čavoški,Ludivine Petetin,2022-02-27 This book provides a multidisciplinary analysis of the impact of Brexit on British agriculture and associated areas discussing the Common Agricultural Policy and the Agriculture Act 2020 The Brexit referendum provoked new debates and questions over

the future of agriculture in Britain and the potential positive and negative impacts of Brexit on both farmers and consumers. These debates as well as the ensuing proposals relevant to the Agriculture Act 2020 have exposed the multidimensional effects of Brexit when it comes to agriculture. With a focus on profitability, the rights of farmers, environmental protection as well as animal welfare, this book brings together an interdisciplinary analysis of the future of British agriculture in post-Brexit Britain. More specifically, it addresses the criticisms over the Common Agriculture Policy, presents an analysis of the Agriculture Act 2020 and considers suggestions for future developments. Through this analysis, the book suggests a way towards the future with a positive outlook towards a competitive and sustainable agriculture that will satisfy the needs of farmers and consumers while ensuring environmental protection, animal welfare and rural development. This book will be of great interest to students and scholars of food and agricultural policy and politics, agroecology and rural development as well as policymakers involved in Britain's post-Brexit environmental policy.

Yearbook of International Organizations 2013-2014 (Volume 3) Union Of International Associations, Union of International Associations, 2013-08-09. The Yearbook of International Organizations provides the most extensive coverage of non-profit international organizations currently available. Detailed profiles of international non-governmental and intergovernmental organizations (IGO) collected and documented by the Union of International Associations can be found here. In addition to the history, aims and activities of international organizations, with their events, publications and contact details, the volumes of the Yearbook include networks between associations, biographies of key people involved and extensive statistical data. Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3.

Real-World Electronic Voting Feng Hao, Peter Y. A. Ryan, 2016-11-30. Real World Electronic Voting: Design, Analysis and Deployment captures all major developments in electronic voting since 2003 in a real-world setting. It covers three broad categories: e-voting protocols, attacks reported on e-voting, and new developments on the use of e-voting. This book explores recent innovations in both poll-site and remote voting systems and their application throughout the world. The requirements of elections are analysed, the available tools and technologies are described, and a variety of modern systems are presented in detail, together with discussions of deployments. This is an invaluable resource for election professionals, researchers, and policy makers alike.

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