



Answers to 5116/ 5118 2014 O level Combined Science (Chemistry) Paper 3

- A1**
- (a) Galvanization (i.e. coating iron with zinc) will prevent iron from rusting.
 - (b) Fermentation requires a temperature between 25°C and 40°C, enzymes (eg. yeast) and anaerobic condition (i.e. absence of oxygen).
 - (c) Calcium hydroxide is used to reduce acidity of soil.
 - (d) Bitumen fraction of crude oil is used for road surfaces.
- A2**
- (a) Two other solids added to a blast furnace are coke and limestone.
 - (b) Iron ore (haematite) contains iron (III) oxide. Near the bottom of the blast furnace, iron (III) oxide reacts with coke (carbon) to form carbon monoxide.
$$\text{Fe}_2\text{O}_3 + 3\text{C} \rightarrow 2\text{Fe} + 3\text{CO}$$

Carbon dioxide also reacts with coke to produce more carbon monoxide.
$$\text{CO}_{2(g)} + \text{C}_{(s)} \rightarrow 2\text{CO}_{(g)}$$
 - (c) If metals are not recycled they can harm future generations:
 - (i) metal is a finite resource → unavailable for future generations
 - (ii) metal disposal → increase landfills → increase ground water pollution
 - (d) Plastics are harmful to the environment because
 - (i) incineration produces harmful gases
 - (ii) non-biodegradable → blocks drains/ water flow and harms marine life
- A3**
- (a) An element, Ea with 4 electron shells and 3 outermost electrons is found in period 4 and group 3 of the periodic table.
 - (b) Charge of the element is Ea^{3+}
 - (c) Chemical formula of oxide is Ea_2O_3 .

O Level Science 5116 2014

Tao Wei

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name Tao Wei.

O Level Science 5116 2014:

Science Education in East Asia Myint Swe Khine, 2015-09-03 This book presents innovations in teaching and learning science novel approaches to science curriculum cultural and contextual factors in promoting science education and improving the standard and achievement of students in East Asian countries The authors in this book discuss education reform and science curriculum changes and promotion of science and STEM education parental roles and involvement in children s education teacher preparation and professional development and research in science education in the context of international benchmarking tests to measure the knowledge of mathematics and science such as the Trends in Mathematics and Science Study TIMSS and achievement in science mathematics and reading like Programme for International Student Assessment PISA Among the high achieving countries the performance of the students in East Asian countries such as Singapore Taiwan Korea Japan Hong Kong and China Shanghai are notable This book investigates the reasons why students from East Asian countries consistently claim the top places in each and every cycle of those study It brings together prominent science educators and researchers from East Asia to share their experience and findings reflection and vision on emerging trends pedagogical innovations and research informed practices in science education in the region It provides insights into effective educational strategies and development of science education to international readers America COMPETES Reauthorization Act of 2010 United States. Congress. House. Committee on Science and Technology (2007), 2010

Budget of the U.S. Government, Appendix, 2013-04-10 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies *The Budget of the United States Government* United States. Office of Management and Budget, 2013

Selected Papers from IEEE ICKII 2019 Teen-Hang Meen, Wenbing Zhao, Cheng-Fu Yang, 2020-12-02 This book entitled Selected papers from IEEE ICKII 2019 selected 13 excellent papers from the 260 papers presented in the IEEE International Conference on Knowledge Innovation and Invention IEEE ICKII 2019 on energies The 2nd IEEE ICKII 2019 was held in Seoul South Korea 12 15 July 2019 and provided a unified communication platform for research on information technology innovation design communication science and engineering industrial design creative design applied mathematics computer science electrical and electronic engineering mechanical and automation engineering green technology and architecture engineering material science and other related fields The ICKII conference enables interdisciplinary collaboration of science and engineering technologists in the academic and industrial fields as well as international networking This book is a collection of 13 research papers The fields included are as follows energy fundamentals energy sources and energy carriers energy exploration intermediate and final energy use energy conversion systems and energy research and development The

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Basic Science Methods for Clinical Researchers Morteza Jalali, Francesca Yvonne Louise Saldanha, Mehdi Jalali, 2017-03-31 Basic Science Methods for Clinical Researchers addresses the specific challenges faced by clinicians without a conventional science background The aim of the book is to introduce the reader to core experimental methods commonly used to answer questions in basic science research and to outline their relative strengths and limitations in generating conclusive data This book will be a vital companion for clinicians undertaking laboratory based science It will support clinicians in the pursuit of their academic interests and in making an original contribution to their chosen field In doing so it will facilitate the development of tomorrow's clinician scientists and future leaders in discovery science Serves as a helpful guide for clinical researchers who lack a conventional science background Organized around research themes pertaining to key biological molecules from genes to proteins cells and model organisms Features protocols techniques for troubleshooting common problems and an explanation of the advantages and limitations of a technique in generating conclusive data Appendices provide resources for practical research methodology including legal frameworks for using stem cells and animals in the laboratory ethical considerations and good laboratory practice GLP

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Lippincott Nursing Procedures Lippincott,2015-10-06 Lippincott Nursing Procedures 7e is a start to finish guide to more than 400 nursing procedures from basic to advanced This reference outlines every procedure lists equipment details each step and includes rationales and cautions to ensure patient safety and positive outcomes Concise clear content targets key information needed to perform nursing procedures safely and accurately at the bedside Tips alerts checklists illustrations and tables provide clarity and quick access to key procedural information Organized alphabetically for easy accessibility the book includes basic and advanced procedures on key topics including infection control specimen collection physical treatments drug administration IV therapy and hemodynamic monitoring as well as procedures related to body systems such as chest tubes peripheral nerve stimulation and intra abdominal pressure monitoring **Handbook of Spatial Analysis in the Social Sciences** Sergio J. Rey,Rachel S. Franklin,2022-11-18 Providing an authoritative assessment of the current landscape of spatial analysis in the social sciences this cutting edge Handbook covers the full range of standard and emerging methods across the social science domain areas in which these methods are typically applied Accessible and comprehensive it expertly answers the key questions regarding the dynamic intersection of spatial analysis and the social sciences

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