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MID YEAR EXAMS

GRADE 11

JUNE 2023

PHYSICAL SCIENCES P2

MARKS: 50

TIME: 1 HOURS

EXAMINER: MR ML KEPU

Physical Science Exemplar June 2014

Tibbitts, Felisa, Council of Europe



Physical Science Exemplar June 2014:

High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-07-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States. Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions. But extracting these offshore petroleum resources involves the possibility, however remote, of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction. The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic. Bolted connections are an integral feature of deep water well operations. *High Performance Bolting Technology for Offshore Oil and Natural Gas Operations* summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors. It focuses on critical bolting bolts, studs, nuts, and fasteners used on critical connections.

Big Data and High Performance Computing L. Grandinetti, G.R. Joubert, M. Kunze, 2015-10-20 Big Data has been much in the news in recent years and the advantages conferred by the collection and analysis of large datasets in fields such as marketing, medicine, and finance have led to claims that almost any real world problem could be solved if sufficient data were available. This is of course a very simplistic view and the usefulness of collecting, processing, and storing large datasets must always be seen in terms of the communication, processing, and storage capabilities of the computing platforms available. This book presents papers from the International Research Workshop Advanced High Performance Computing Systems held in Cetraro, Italy, in July 2014. The papers selected for publication here discuss fundamental aspects of the definition of Big Data as well as considerations from practice where complex datasets are collected, processed, and stored. The concepts, problems, methodologies, and solutions presented are of much more general applicability than may be suggested by the particular application areas considered. As a result, the book will be of interest to all those whose work involves the processing of very large data sets, exascale computing, and the emerging fields of data science.

Cognitive Linguistics - Foundations of Language Ewa Dąbrowska, Dagmar Divjak, 2019-07-08 *Cognitive foundations of language* introduces the reader to the abilities and processes in which research in Cognitive Linguistics is grounded. The book looks at key concepts such as embodiment, salience, entrenchment, construal, categorization, and collaborative communication and discusses their genesis and implications for cognitive linguistic research.

Handbook of Cognitive Linguistics Ewa Dąbrowska, Dagmar Divjak, 2015-05-19 *Cognitive Linguistics* is an approach to language study based on the assumptions that our linguistic abilities are firmly rooted in our cognitive abilities, that meaning

is essentially conceptualization and that grammar is shaped by usage The Handbook of Cognitive Linguistics provides state of the art overviews of the numerous subfields of cognitive linguistics written by leading international experts which will be useful for established researchers and novices alike It is an interdisciplinary project with contributions from linguists psycholinguists psychologists and computer scientists which will emphasise the most recent developments in the field in particular the shift towards more empirically based research In this way it will we hope help to shape the field encouraging methodologically more rigorous research which incorporates insights from all the cognitive sciences Editor Ewa D browska was awarded the Alexander von Humboldt Professorship 2018 *Sustainable Plastics* Joseph P. Greene,2014-09-22

Providing guidelines for implementing sustainable practices for traditional petroleum based plastics biobased plastics and recycled plastics *Sustainable Plastics and the Environment* explains what sustainable plastics are why sustainable plastics are needed which sustainable plastics to use and how manufacturing companies can integrate them into their manufacturing operations A vital resource for practitioners scientists researchers and students the text includes impacts of plastics including Life Cycle Assessments LCA and sustainability strategies related to biobased plastics and petroleum based plastics as well as end of life options for petroleum and biobased plastics **Climate Change and Cities** Cynthia

Rosenzweig,William D. Solecki,Patricia Romero-Lankao,Shagun Mehrotra,Shobhakar Dhakal,Somayya Ali Ibrahim,2018-03-29 The Urban Climate Change Research Network s Second Assessment Report on Climate Change in Cities ARC3 2 is the second in a series of global science based reports to examine climate risk adaptation and mitigation efforts in cities The book explicitly seeks to explore the implications of changing climatic conditions on critical urban physical and social infrastructure sectors and intersectoral concerns The primary purpose of ARC3 2 is to inform the development and implementation of effective urban climate change policies leveraging ongoing and planned investments for populations in cities of developing emerging and developed countries This volume like its predecessor will be invaluable for a range of audiences involved with climate change and cities mayors city officials and policymakers urban planners policymakers charged with developing climate change mitigation and adaptation programs and a broad spectrum of researchers and advanced students in the environmental sciences Forensic Podiatry Denis Wesley Vernon,John A. DiMaggio,2017-06-01

Forensic Podiatry Principles and Methods Second Edition has been completely updated to reflect the latest developments and advancements in this changing field New additions to the book from the previous edition include all new chapters on the expert witness Frye Test and Daubert Standard as well as revised theories on gait analysis bare footprint identification and footwear examination The new edition includes extensive case studies and an international compilation of current best practices Since this text s first publication the field of forensic podiatry has rapidly developed from relative obscurity to a dynamic internationally recognized discipline Forensic podiatrists have been able to advance improvements in the field both in widening the range of applications and deepening the practice through improved techniques to strengthen evidentiary

conclusions Written by two pioneers in the field Forensic Podiatry includes over one hundred detailed illustrations to serve as an invaluable resource for students practicing forensic podiatrists legal professionals and those new to the profession

Curriculum Development and Review for Democratic Citizenship and Human Rights Education Tibbitts, Felisa, Council of Europe, 2016-03-01 Education for democratic citizenship and human rights education are vital for peaceful sustainable and inclusive societies based on respect for the human rights of every person Effective teaching and learning processes require well trained teachers positive learning environments and high quality learning materials This is underpinned by education policy including curriculum development and review which is the main focus of this book The strengthening of education policies in the fields of education for democratic citizenship and human rights lies at the very heart of the efforts of the Council of Europe the United Nations Educational Scientific and Cultural Organization the Office for Democratic Institutions and Human Rights of the Organization for Security and Co operation in Europe and the Organization of American States These organisations have jointly produced this publication in order to support states commitment to fostering citizenship and human rights education and improving access to quality education for all *Big Scientific Data Benchmarks, Architecture, and Systems* Rui Ren, Chen Zheng, Jianfeng Zhan, 2019-01-11 This book constitutes the refereed proceedings of the First Workshop on Big Scientific Data Benchmarks Architecture and Systems SDBA 2018 held in Beijing China in June 2018 The 10 revised full papers presented were carefully reviewed and selected from 22 submissions The papers are organized in topical sections on benchmarking performance optimization algorithms big science data framework *Neural Mechanisms of Perceptual Categorization as Precursors to Speech Perception* Einat Liebenthal, Lynne E. Bernstein, 2017-05-03 Perceptual categorization is fundamental to the brain s remarkable ability to process large amounts of sensory information and efficiently recognize objects including speech Perceptual categorization is the neural bridge between lower level sensory and higher level language processing A long line of research on the physical properties of the speech signal as determined by the anatomy and physiology of the speech production apparatus has led to descriptions of the acoustic information that is used in speech recognition e g stop consonants place and manner of articulation voice onset time aspiration Recent research has also considered what visual cues are relevant to visual speech recognition i e the visual counter parts used in lipreading or audiovisual speech perception Much of the theoretical work on speech perception was done in the twentieth century without the benefit of neuroimaging technologies and models of neural representation Recent progress in understanding the functional organization of sensory and association cortices based on advances in neuroimaging presents the possibility of achieving a comprehensive and far reaching account of perception in the service of language At the level of cell assemblies research in animals and humans suggests that neurons in the temporal cortex are important for encoding biological categories On the cellular level different classes of neurons interneurons and pyramidal neurons have been suggested to play differential roles in the neural computations underlying auditory and visual

categorization The moment is ripe for a research topic focused on neural mechanisms mediating the emergence of speech representations including auditory visual and even somatosensory based forms Important progress can be achieved by juxtaposing within the same research topic the knowledge that currently exists the identified lacunae and the theories that can support future investigations This research topic provides a snapshot and platform for discussion of current understanding of neural mechanisms underlying the formation of perceptual categories and their relationship to language from a multidisciplinary and multisensory perspective It includes contributions reviews original research methodological developments pertaining to the neural substrates dynamics and mechanisms underlying perceptual categorization and their interaction with neural processes governing speech perception

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web with a strong acid and strong base titration strong acids and strong bases refer to species that completely dissociate to form ions in solution by contrast weak acids and bases ionize only partially and the ionization reaction is reversible

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web aug 30 2022 acid base titrations are usually used to find the amount of a known acidic or basic substance through acid base reactions the analyte titrand is the solution with an unknown molarity the reagent titrant is the solution with a known molarity that will react with the analyte

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web conclusion the purpose of the experiment was to identify the unknown solid acid 17 by calculating its molar mass this was done by titration of the acid with sodium hydroxide in order to find the volume of sodium hydroxide required to reach the end point and that value was used in unit analysis to find the molar mass and identify the unknown solid acid

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web by utilizing the half equivalence point on the titration curve the pka of the acid analyte was determined to be 3.655 furthermore using the stoichiometric ratio between the naoh and the acid analyte 1:1 we could experimentally determine the number of moles of the acid in the solution to be 0.00731 moles making the experimental molar mass

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web goals understand that parts of an acid base titration be able to determine the K_a or K_b from pH data associated with the titration of a weak acid or base be able to determine the molar mass of a solid monoprotic acid from titration data be able to calculate K_{a1} and K_{a2} for a polyprotic acid by the end of this lab students should be able to

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web titration experiment in the neutralization of hydrochloric acid by sodium hydroxide the mole ratio of acid to base is 1:1 $HCl(aq) + NaOH(aq) \rightarrow NaCl(aq) + H_2O(l)$ one mole of HCl would be fully neutralized by one mole of NaOH

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web conclusion the identification of an unknown solid acid the purpose of this experiment was to determine the standardization of sodium hydroxide NaOH and oxalic acid $H_2C_2O_4 \cdot 2H_2O$ and the molar mass of an unknown solid acid using the molar mass of the standardized sodium hydroxide solution

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web jul 19 2023 introduction titration is an analytical quantitative technique used to determine the concentration of a solute a pH titration is used to determine the concentration of an acid or a base titrations play an important role in determining amount and purity in many manufacturing processes

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web specifically an acid base titration can be used to figure out the concentration of an acid or base whether an unknown acid or base is strong or weak pK_a of an unknown acid or pK_b of the unknown base key terms titration a process where a solution of known strength is added to a certain volume of a treated sample containing an

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web conclusion this lab evaluated an acid base reaction with the volumetric analysis of a standard solution being NaOH reaction with a 2nd substance H_2CO_3 aq $2NaOH$ aq Na_2CO_3 $4H_2O$ to differentiate an acid from a base in a solution a pH scale is used the pH scale ranges from 0 to 14 a pH of 7 is neutral in an acid base reaction

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