



# **basic education**

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Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## **NATIONAL SENIOR CERTIFICATE**

**GRADE 12**

**LIFE SCIENCES P1  
EXEMPLAR 2014  
MEMORANDUM**

**MARKS: 150**

**This memorandum consists of 11 pages.**

# Whats On Life Science P1 November 2014

**Deyao Tan**



## Whats On Life Science P1 November 2014:

### Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges

Jonathan E. Suk, Kathleen M. Vogel, Amanda Jane Ozin, 2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives ,

*Engineering Technology, Engineering Education and Engineering Management* Deyao Tan, 2015-06-25 This volume contains papers presented at the International Conference on Engineering Technologies Engineering Education and Engineering Management ETEEEM 2014 Hong Kong 15 16 November 2014 A wide variety of topics is included in the book Engineering Education Education Engineering and Technology Methods and Learning Mechanisms in Engineering Education Engineering Technologies Mechanical and Materials Engineering Financial Engineering Energy and Environmental Engineering Social Engineering Information Engineering Bioengineering and Chemical engineering Engineering Management Decision Support System Project and Quality Management Human Resource Management The book will be of interest to academics and professionals in Engineering Technologies Engineering Education and Engineering Management

*ECRM2015-Proceedings of the 14th European Conference on Research Methods 2015* Dr Vincent Cassar, Dr Frank Bezzina, 2015-06-01 Complete proceedings of the 14th European Conference on Research Methodology for Business and Management Studies Valletta Malta Published by Academic Conferences and Publishing International **Fluid Physiology** Thomas Woodcock, 2019-10-23 This book is essential reading for medical or veterinary practitioners who need to understand the new fluid physiology and to apply it to the safe care of patients The Starling principle is one of medicine s most important concepts and originates from Ernest Starling s laboratory research 120 years ago However inappropriate fluid therapy is now recognised as harming and even killing thousands of patients every year In 2004 a landmark study was published which confirmed the hypotheses put forward by Sheldon Weinbaum and Charles Michel among other physiologists that in most tissues and in most situations capillaries filter fluid to the interstitium but do not reabsorb it This book draws together for the first time the evolving science of the steady state Starling principle and the clinical evidence that reveals its applicability to safer patient care It is a thorough re appraisal of the basics of fluid therapy The mantra of colloid boluses for plasma volume resuscitation and colloid free isotonic salt solution for extracellular fluid volume does not explain observations from blinded

clinical trials and the expectation of benefit for resuscitation with colloids particularly in respect of oedema has not materialised Now that there is consensus that colloid volume therapy should not be used in critically ill patients there is a pressing need for a new paradigm for fluid therapy This book proposes an improved paradigm that takes into consideration the Starling principle which has been neglected by clinicians and revised by physiologists in recent years It retires the view of colloids as preferred plasma substitutes and focuses instead on the central volume of distribution of an infused fluid its rate of distribution to a peripheral volume and its rate of excretion In short it emphasises volume kinetics

**Questions and answers for job interview Offshore Oil & Gas Platforms** Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 291 questions and answers for job interview and as a BONUS web addresses to 288 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

**Entrepreneurial Learning City Regions** Judith James,Jean Preece,Raúl Valdés-Cotera,2017-09-21 This book proposes an alternative strategy to improve and sustain prosperity through the creation of an entrepreneurial culture in learning cities or city regions The edited collection provides insights into how entrepreneurship education job creation and social inclusion can be aligned through entrepreneurial learning in the context of territorial development With rich and varied contributions from a wide field including policy makers entrepreneurs an investment banker leaders of universities and councils the voluntary sector scientists educators and students it reviews and assesses how learning cities and regions may become more prosperous by investing in the development of entrepreneurial skills throughout lifelong learning Reinforced by examples on developing and retaining entrepreneurial people this book contributes to our understanding of how entrepreneurial learning can be fostered in different city and city region contexts It makes an interesting contribution to the field in terms of mapping out complex issues and testing the practical validity of the concept while also providing rich and insightful case studies centred on the Welsh experience with entrepreneurial learning city regions The high quality international contributions demonstrate the new worldwide interest in developing an entrepreneurial culture for the benefit of a city or region rather than an entrepreneurial mind set for individual benefit This fascinating subject will be of interest to many social scientists policymakers and practitioners It will be found especially valuable for professionals involved in economic inclusive and sustainable city or regional development

**War** Cameron D. Lippard,Pavel Osinsky,Lon Strauss,2018-02-13 War Contemporary Perspectives on Armed Conflicts around the World presents a broad variety of interdisciplinary and social scientific perspectives on the causes processes cultural

representations and social consequences of the armed conflicts between and within nations and other politically organized communities This book provides theoretical views of armed conflict and its impact on people and institutions around the world

**How and Why Does Spatial-Hearing Ability Differ among Listeners? What Is the Role of Learning and Multisensory Interactions?** Guillaume Andéol, Brian D. Simpson, Ewan A. Macpherson, 2016-08-29 Spatial hearing ability has been found to vary widely across listeners A survey of the existing auditory space perception literature suggests that three main types of factors may account for this variability physical factors e g acoustical characteristics related to sound localization cues perceptual factors e g sensory cognitive processing perceptual learning multisensory interactions and methodological factors e g differences in stimulus presentation methods across studies However the extent to which these and perhaps other still unidentified factors actually contribute to the observed variability in spatial hearing across individuals with normal hearing or within special populations e g hearing impaired listeners remains largely unknown Likewise the role of perceptual learning and multisensory interactions in the emergence of a multimodal but unified representation of auditory space is still an active topic of research A better characterization and understanding of the determinants of inter individual variability in spatial hearing and of its relationship with perceptual learning and multisensory interactions would have numerous benefits In particular it would enhance the design of rehabilitative devices and of human machine interfaces involving auditory or multimodal space perception such as virtual auditory multimodal displays in aeronautics or navigational aids for the visually impaired For this Research Topic we have considered manuscripts that present new methods or review existing methods for the study of inter individual differences present new data or review existing data concerning acoustical features relevant for explaining inter individual differences in sound localization performance present new or review existing psychophysical or neurophysiological findings concerning spatial hearing and or auditory perceptual learning and or multisensory interactions in humans normal or impaired young or older listeners or other species discuss the influence of inter individual differences on the design and use of assistive listening devices rehabilitation or human machine interfaces involving spatial hearing or multimodal perception of space ergonomics

**From Chromosomes to Mobile Genetic Elements** Lee B. Kass, 2024-06-27 This biography of Nobel Laureate Barbara McClintock 1902-1992 places her life and work in its social scientific and personal context The author examines the development of Barbara McClintock's scientific work and her influence upon individuals and upon the fields of cytogenetics and evolutionary biology in the period from 1902 to the present The history documents years of McClintock's notable and lauded scientific work long before she discovered and named transposable elements in the mid 1940s for which she ultimately received the Nobel Prize The biography employs documented evidence to expose demystify and provide clarity for legends and misinterpretations of McClintock's life and work Key Features Exposes and demystifies myths and legends told about McClintock's time in Missouri Clarifies the changing language of genes and genetics Places in perspective the history of McClintock's research Documents McClintock's

family and early life before college Provides documented details of McClintock s time in Nazi Germany      **Routledge**

**Handbook of Food Waste** Christian Reynolds,Tammara Soma,Charlotte Spring,Jordon Lazell,2020-01-13 This comprehensive handbook represents a definitive state of the current art and science of food waste from multiple perspectives The issue of food waste has emerged in recent years as a major global problem Recent research has enabled greater understanding and measurement of loss and waste throughout food supply chains shedding light on contributing factors and practical solutions This book includes perspectives and disciplines ranging from agriculture food science industrial ecology history economics consumer behaviour geography theology planning sociology and environmental policy among others The Routledge Handbook of Food Waste addresses new and ongoing debates around systemic causes and solutions including behaviour change social innovation new technologies spirituality redistribution animal feed and activism The chapters describe and evaluate country case studies waste management treatment prevention and reduction approaches and compares research methodologies for better understanding food wastage This book is essential reading for the growing number of food waste scholars practitioners and policy makers interested in researching theorising debating and solving the multifaceted phenomenon of food waste      **Bituminous Mixtures and Pavements VIII** A.F. Nikolaidis,E. Manthos,2024-06-21 Bituminous Mixtures and Pavements VIII contains 114 papers as presented at the 8th International Conference Bituminous Mixtures and Pavements 8th ICONFBMP 12 14 June 2024 Thessaloniki Greece The contributions reflect the research and practical experience of academics and practicing engineers from thirty four 34 different countries and cover a wide range of topics Session I Bitumen Modified binders Aggregates and Subgrade Session II Bituminous mixtures Design Construction Testing Performance Session III Pavements Design Construction Maintenance Sustainability Energy and Environmental consideration Session IV Pavement management and Geosynthetics Session V Pavement recycling Session VI Pavement surface characteristics Pavement performance monitoring Safety Session VII Biomaterials in pavement engineering Session VIII Prediction models of pavement performance Bituminous Mixtures and Pavements VIII covers recent advances in highway materials technology and pavement engineering and will be of interest to scientists and professionals involved or interested in these areas The ICONFBMP conferences have been organized every four years since 1992 This 8th conference was jointly organized by Laboratory of Highway Engineering Aristotle University of Thessaloniki Greece Built Environment Research Institute BERI University of Ulster UK University of Texas San Antonio UTSA USA Laboratory for Advanced Construction Technology LACT Technological Institute of Iowa USA Technological University of Delft TUDelft The Netherlands and University of Antwerp UA Belgium      *Society and the Environment* Michael S Carolan,2020-03-10 Without focusing entirely on what is wrong with the world around us the third edition of *Society and the Environment* centers its discussion on realistic solutions to the problems that persist and examines current controversies within a socio organizational context After introducing pragmatic environmentalism Carolan discusses the complex pressures and variables that exist

where ecology and society collide such as population growth and the concurrent increase in demands for food and energy and transportation and its outsized influence on urban and community patterns With further attention given to the social phenomena and structural dynamics driving today's environmental problems the book concludes with an important reflection on truly sustainable solutions and what constitutes meaningful social change Each chapter in this interdisciplinary text follows a three part structure beginning with an overview of what is wrong and why This leads into a discussion on each issue's wide ranging implications and finally a balanced consideration of realistic solutions Featuring updated and expanded examples discussion points and coverage of recent developments including the US withdrawing from the Paris Agreement booming national economies and wealth distribution growing global interest in environmental justice with particular focus on the links between injustice and race and inequality climate change and renewable energy this new edition remains an essential companion for courses on environmental sociology and sustainability

**Unfolding Consciousness** Edi Bilimoria, 2024-03-11 Exploring the Living Universe and Intelligent Powers in Nature and Humans author Edi Bilimoria heralds the new science of consciousness and offers the readers a roadmap and necessary tools to achieve future growth Presented in three volumes plus volume IV contains references resources further reading they reveal the unity of the Eastern and Western branches of our perineal wisdom Bilimoria shows how science seeks truth using a synthesis of both traditions Evidence from a wide range of sources scientific medical philosophical religious and cultural is put forward to argue the case that humans are spiritual beings primarily and not merely complicated biological machines Bilimoria teaches that consciousness is not the product of matter but the primary element from which all else emanates This process and its underlying mechanisms are described in detail with much clarity This work has over 2000 references and is supported by copious tables and diagrams plus individual chapter summaries and sidenotes to assist readers in navigating the multidimensional terrain traversed Key areas The scientific and esoteric worldviews compared and contrasted The ultimate promise of science The soft and hard problems of consciousness How external input to the physical senses results in an internal subjective experience Quantum physics its contribution to a new scientific paradigm The Mystery Teachings of All Ages their worldwide unity and central message Wet computers and computers Is the brain no different in principle from a computer Death and after the transition and continuity of consciousness in other realms Paranormal phenomena and apparitions Subtle bodies Evolution and destiny Powers latent in human beings Divinity and the united message of all world religions The question of immortality The primacy of consciousness and the manner of its unfoldment from the unmanifest realms to the physical world Edi Bilimoria's guest appearance on the Shepherd Walwyn podcast series can be found on this link <https://shepherdwalwyn.com/edi-bilimoria-unfolding-consciousness-why-sapolsky-is-wrong-and-how-to-get-in-tune-with-life>

**Food for All in Africa** Gordon Conway, Ousmane Badiane, Katrin Glatzel, 2019-11-15 Africa requires a new agricultural transformation that is appropriate for Africa that recognizes the continent's diverse environments and climates and that

takes into account its histories and cultures while benefiting rural smallholder farmers and their families In this boldly optimistic book Sir Gordon Conway Ousmane Badiane and Katrin Glatzel describe the key challenges faced by Africa s smallholder farmers and present the concepts and practices of Sustainable Intensification SI as opportunities to sustainably transform Africa s agriculture sector and the livelihoods of millions of smallholders The way forward they write will be an agriculture sector deeply rooted within SI producing more with less using fertilizers and pesticides more prudently adapting to climate change improving natural capital adopting new technologies and building resilience at every stage of the agriculture value chain Food for All in Africa envisions a virtuous circle generated through agricultural development rooted in SI that results in greater yields healthier diets improved livelihoods for farmers and sustainable economic opportunities for the rural poor that in turn generate further investment It describes the benefits of digital technologies for farmers and the challenges of transforming African agricultural policies and creating effective and inspiring leadership Food for All in Africa demonstrates why we should take on the challenge and provides ideas and methods through which it can be met

**Recombinant protein expression in microbial systems** Eduardo A. Ceccarelli, Germán L. Rosano, 2014-10-02 With the advent of recombinant DNA technology expressing heterologous proteins in microorganisms rapidly became the method of choice for their production at laboratory and industrial scale Bacteria yeasts and other hosts can be grown to high biomass levels efficiently and inexpensively Obtaining high yields of recombinant proteins from this material was only feasible thanks to constant research on microbial genetics and physiology that led to novel strains plasmids and cultivation strategies Despite the spectacular expansion of the field there is still much room for progress Improving the levels of expression and the solubility of a recombinant protein can be quite challenging Accumulation of the product in the cell can lead to stress responses which affect cell growth Buildup of insoluble and biologically inactive aggregates inclusion bodies lowers the yield of production This is particularly true for obtaining membrane proteins or high molecular weight and multi domain proteins Also obtaining eukaryotic proteins in a prokaryotic background for example plant or animal proteins in bacteria results in a product that lack post translational modifications often required for functionality Changing to a eukaryotic host yeasts or filamentous fungi may not be a proper solution since the pattern of sugar modifications is different than in higher eukaryotes Still many advances in the last couple of decades have provided to researchers a wide variety of strategies to maximize the production of their recombinant protein of choice Everything starts with the careful selection of the host Be it bacteria or yeast a broad list of strains is available for overcoming codon use bias incorrect disulfide bond formation protein toxicity and lack of post translational modifications Also a huge catalog of plasmids allows choosing for different fusion partners for improving solubility protein secretion chaperone co expression antibiotic resistance and promoter strength Next controlling culture conditions like temperature inducer and media composition can bolster recombinant protein production With this Research Topic we aim to provide an encyclopedic account of the existing approaches to the expression of recombinant



proteins in microorganisms highlight recent discoveries and analyze the future prospects of this exciting and ever growing field

*Rethinking Democracy Promotion in International Relations* Jessica Schmidt, 2015-08-20 This book traces and conceptualises the changing notion of democracy and demonstrates how democracy promotion finds itself at the heart of contemporary international discourses and policies Democracy promotion is widely considered to constitute a hypocritical and failed grand international narrative of the 1990s and has allegedly been replaced by other more pressing and academically more captivating concerns such as conflict management statebuilding and climate change This book challenges this position and argues that the core notions of democracy promotion such as empowerment inclusion and responsiveness are a key concern of contemporary international policymakers Drawing on the work of Michel Foucault Hannah Arendt as well as John Dewey it investigates the notion of democracy and modality of its promotions through the policy fields of conflict management statebuilding and climate change The central development the book observes is the reconceptualisation of democracy from the constituted sphere of the public to the lived relations of the social The book argues that the novel rationality of democracy and its promotion offers a particular solution to governing impasses in a world perceived to be globalised and complex which accounts for democracy's current but neglected centrality This book will be of much interest to students of democracy intervention statebuilding global governance and IR in general

**Technical questions and answers for job interview Offshore Drilling Platforms** PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the drilling of an oil gas wells that will help you to be prepared for job interview at oil gas companies From start to finish you'll see a general prognosis of the drilling process If you are new to the oil gas industry you'll enjoy having a leg up with the knowledge of these processes If you are a seasoned oil gas person you'll enjoy reading what you may or may not know in these pages This course provides a non technical overview of the phases operations and terminology used on offshore drilling platforms It is intended also for non drilling personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations

**Working Together** Elisa Silverman, 2015-09 This series gives kids from other parts of the world insight into various aspects of life in Israel today Written and crafted by three authors currently living in Jerusalem this series is the first of its kind to bring such insight to children What is working like for Israelis What fields are most popular How are Israelis contributing to and changing the world through their work What are the challenges for Israelis in the current economy and how are they overcoming those challenges Includes information about the Israeli Army and how service is required for virtually all citizens The unique blend of immigrants and native citizens shape the economy and production of the nation Technological innovations are discussed flash drives ICQ cell

phones Magshoe Mobileye Silicon Wadi Entrepreneurship Medical scientific innovations Solar energy developments Space satellites and Agricultural developments Includes personal accounts from people in various professions     **Technical questions and answers for job interview Offshore Oil & Gas Rigs** Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

## Unveiling the Power of Verbal Art: An Mental Sojourn through **Whats On Life Science P1 November 2014**

In some sort of inundated with screens and the cacophony of quick transmission, the profound power and mental resonance of verbal artistry frequently diminish into obscurity, eclipsed by the regular barrage of sound and distractions. Yet, nestled within the lyrical pages of **Whats On Life Science P1 November 2014**, a captivating perform of literary splendor that pulses with fresh feelings, lies an remarkable journey waiting to be embarked upon. Published with a virtuoso wordsmith, this mesmerizing opus guides readers on an emotional odyssey, softly exposing the latent potential and profound impact stuck within the elaborate web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is main subjects, dissect its interesting writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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