

## SECTION A

### QUESTION 1

1.1.1 The common function of calcium and phosphorus in mammals is that it ...

- A forms part of nucleic acid.
- B plays a role in the synthesis of proteins.
- C prevents rickets.
- D is involved in the formation of haemoglobin.

1.1.2 Which of the following substances are absorbed by the root hairs from the soil?

- (i) Mineral ions
- (ii) Nitrates
- (iii) Oxygen
- (iv) Humus
- (v) Water

- A Only (i) and (ii)
- B (i), (ii), (iv) and (v)
- C (i), (ii), (iii), (iv) and (v)
- D (i), (ii), (iii) and (v)

1.1.3 In which of the following processes is mitosis NOT involved?

- A Production of sperms in the testes.
- B Replacement of cells in a cut through the skin.
- C Growth of an organism.
- D Production of identical daughter cells.

# 2013 Life Science Paper Memorandum

**William B. Bonvillian, Charles Weiss**



## **2013 Life Science Paper Memorandum:**

**The Cost-Benefit Revolution** Cass R. Sunstein, 2019-09-24 Why policies should be based on careful consideration of their costs and benefits rather than on intuition popular opinion interest groups and anecdotes Opinions on government policies vary widely Some people feel passionately about the child obesity epidemic and support government regulation of sugary drinks Others argue that people should be able to eat and drink whatever they like Some people are alarmed about climate change and favor aggressive government intervention Others don't feel the need for any sort of climate regulation In *The Cost Benefit Revolution* Cass Sunstein argues our major disagreements really involve facts not values It follows that government policy should not be based on public opinion intuitions or pressure from interest groups but on numbers meaning careful consideration of costs and benefits Will a policy save one life or one thousand lives Will it impose costs on consumers and if so will the costs be high or negligible Will it hurt workers and small businesses and if so precisely how much As the Obama administration's regulatory czar Sunstein knows his subject in both theory and practice Drawing on behavioral economics and his well known emphasis on nudging he celebrates the cost benefit revolution in policy making tracing its defining moments in the Reagan Clinton and Obama administrations and pondering its uncertain future in the Trump administration He acknowledges that public officials often lack information about costs and benefits and outlines state of the art techniques for acquiring that information Policies should make people's lives better Quantitative cost benefit analysis Sunstein argues is the best available method for making this happen even if in the future new measures of human well being also explored in this book may be better still

*The UFO Phenomenon* Robert Davis, 2015-02-28 A comprehensive perspective of evidence and future directions associated with the UFO phenomenon Includes review and analysis of studies evidence theories and research needs involving UFO topics Extensive scientific endnotes

**Research Handbook on Intellectual Property and the Life Sciences** Duncan Matthews, Herbert Zech, 2017-06-30 Intellectual property IP is a key component of the life sciences one of the most dynamic and innovative fields of technology today At the same time the relationship between IP and the life sciences raises new public policy dilemmas The *Research Handbook on Intellectual Property and the Life Sciences* comprises contributions by leading experts from academia and industry to provide in depth analyses of key topics including pharmaceuticals diagnostics and genes plant innovations stem cells the role of competition law and access to medicines The *Research Handbook* focuses on the relationship between IP and the life sciences in Europe and the United States complemented by country specific case studies on Australia Brazil China India Japan Kenya South Africa and Thailand to provide a truly international perspective

**POVERTY, LIVELIHOOD AND ENVIRONMENTAL ISSUES** Ashok Kundu, Amit Kumar Bhandari, Aparajita Dhara, 2017-08-01 The linkage between poverty livelihood and the environment is always multifaceted and often complex The degradation of the environment has been plunging millions of people into poverty The last century witnessed rapid progress in the application of science and technology which resulted in

improvement in livelihood reduction in poverty enhanced life expectancy and huge growth in consumption which in turn created pressure on the environment Thus the planet s capacity to sustain is eroding with degrading agricultural land shrinking forests diminishing supply of clean water and other related issues Apart from food and water clean and affordable access to energy is one key issue to a decent livelihood The tradeoffs that policymakers are facing nowadays are rapid reduction in poverty and improving livelihood without harming the environment These draw our focus to address environmental issues that matter to the livelihood of the poor which are critical for poverty reduction Strengthening the link between poverty livelihood and the environment can promote sustainable development outcomes The book is a collection of articles on comprehensive research case studies empirical and theoretical papers on these issues The chapters of the book attempted to analyze the links and identify approaches that can promote positive outcomes The contributors here tried to highlight a number of key challenges that need to be addressed in the process of policy formulation and government investment programmes It may serve as an important resource for academics researchers professionals students and policy makers

**Military Veteran Reintegration** Carl Castro,Sanela Dursun,2019-08-21 Military Veteran Reintegration Approach Management and Assessment of Military Veterans Transitioning to Civilian Life offers a toolkit for researchers and practitioners on best practices for easing the reintegration of military veterans returning to civilian society It lays out how transition occurs identifies factors that promote or impede transition and operationalizes outcomes associated with transition success Bringing together experts from around the world to address the most important aspects of military transition the book looks at what has been shown to work and what has not while also offering a roadmap for best results moving forward Contains evidence based interventions for military veteran to civilian transition Features international experts from North America Europe and Asia Includes how to measure transition outcomes Outlines recovery programs for the injured and sick Identifies factors that promote or impede successful transition

*Leadership and Women in Statistics* Amanda L. Golbeck,Ingram Olkin,Yulia R. Gel,2015-07-13 Learn How to Infuse Leadership into Your Passion for Scientific Research Leadership and Women in Statistics explores the role of statisticians as leaders with particular attention to women statisticians as leaders By paying special attention to women s issues this book provides a clear vision for the future of women as leaders in scientific and

*How's Life? 2015 Measuring Well-being* OECD,2015-10-13 How s Life describes the essential ingredients that shape people s well being in OECD and partner countries It includes a wide variety of statistics capturing both material well being and quality of life This third edition includes a special focus on child well being

**Africa's Lions** Haroon Bhorat,Finn Tarp,2016-11-08 Examining the economic forces that will shape Africa s future Africa s Lions examines the economic growth experiences of six fast growing and or economically dominant African countries Expert African researchers offer unique perspectives into the challenges and issues in Ethiopia Ghana Kenya Mozambique Nigeria and South Africa Despite a growing body of research on African economies very little has focused on the relationship

between economic growth and employment outcomes at the detailed country level A lack of empirical data has deprived policymakers of a robust evidence base on which to make informed decisions By harnessing country level household firm and national accounts data together with existing analytical country research the authors have attempted to bridge this gap The growth of the global working age population to 2030 will be driven primarily by Africa which means that the relationship between growth and employment should be understood within the context of each country s projected demographic challenge and the associated implications for employment growth A better understanding of the structure of each country s workforce and the resulting implications for human capital development the vulnerably employed and the working poor will be critical to informing the development policy agenda As a group the six countries profiled in Africa s Lions will largely shape the continent s future Each country chapter focuses on the complex interactions between economic growth and employment outcomes within the individual Africa s Lions context

Risk Regulation in the Internal Market Maria Weimer, 2019-03-13 This book offers a topical inquiry into the legal and political limits of EU regulation in the field of risk and new technologies surrounded by techno scientific complexity uncertainty and societal contestation It uses agricultural biotechnology as a paradigmatic example to illustrate the complex intertwinement between environmental public health economic and social concerns in risk regulation Weimer analyses the drawbacks of the EU approach to agricultural biotechnology showing that its reductionism i e the narrow understanding of GMO risks as well as the exclusion of broader societal concerns related to environmental and social sustainability has undermined both the legitimacy and effectiveness of EU regulation in this area Resistance to this approach however has also triggered legal innovations prompting us to re think EU internal market law including the way in which it manages the tensions between unity and diversity and between social and economic concerns This text offers fresh and original insights into how far the EU can go in harmonizing regulatory approaches to risk At the same time it proposes new ways of re thinking EU risk regulation to make it more responsive to different perspectives on risk and technology A unique feature of this book is that it contributes to various strains of scholarship including risk regulation internal market law public administration and studies of governance and regulation as well as connecting these themes to broader debates about the legitimacy of European integration and new ways of differentiated integration As a result it assists in re imagining the EU internal market and its regulation as a site of diversity

**Data Management** Margaret E. Henderson, 2016-10-25 Libraries organize information and data is information so it is natural that librarians should help people who need to find organize use or store data Organizations need evidence for decision making data provides that evidence Inventors and creators build upon data collected by others All around us people need data Librarians can help increase the relevance of their library to the research and education mission of their institution by learning more about data and how to manage it Data Management will guide readers through Understanding data management basics and best practices Using the reference interview to help with data management Writing data

management plans for grants Starting and growing a data management service Finding collaborators inside and outside the library Collecting and using data in different disciplines

**Critical Role of Animal Science Research in Food Security and Sustainability** National Research Council, Division on Earth and Life Sciences, Board on Agriculture and Natural Resources, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Considerations for the Future of Animal Science Research, 2015-03-31 By 2050 the world's population is projected to grow by one third reaching between 9 and 10 billion With globalization and expected growth in global affluence a substantial increase in per capita meat dairy and fish consumption is also anticipated The demand for calories from animal products will nearly double highlighting the critical importance of the world's animal agriculture system Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development technology and resource needs for research in the field of animal agriculture both nationally and internationally This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems and identifies factors that may impact the ability of the United States to meet demand for animal products including the need for trained human capital product safety and quality and effective communication and adoption of new knowledge information and technologies The agricultural sector worldwide faces numerous daunting challenges that will require innovations new technologies and new ways of approaching agriculture if the food feed and fiber needs of the global population are to be met The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century

**Handbook of Research on Emerging Perspectives in Intelligent Pattern Recognition, Analysis, and Image Processing** Kamila, Narendra Kumar, 2015-11-30

Self-Governance in Science Stephen M. Maurer, 2017-11-16 Commercial and academic communities use private rules to regulate everything from labor conditions to biological weapons This self governance is vital in the twenty first century where private science and technology networks cross so many borders that traditional regulation and treaty solutions are often impractical Self Governance in Science analyzes the history of private regulation identifies the specific market factors that make private standards stable and enforceable explains what governments can do to encourage responsible self regulation and asks when private power might be legitimate Unlike previous books which stress sociology or political science perspectives Maurer emphasizes the economic roots of private power to deliver a coherent and comprehensive account of recent scholarship Individual chapters present a detailed history of past self government initiatives describe the economics

and politics of private power and extract detailed lessons for law legitimacy theory and public policy      *Crisis Communication and Crisis Management* Burton St. John III, Yvette E. Pearson, 2016-08-01 *Crisis Communication and Crisis Management* An Ethical Approach is the only text on the market to provide students with the integration of ethical inquiry into the fundamentals of crisis communication Authors Burton St John III and Yvette E Pearson combine comprehensive coverage of the key skills concepts and theories of crisis communication with an extensive collection of contemporary case studies giving students a strong understanding of the essential role that communicators play in moments of crisis Students are encouraged to build upon their communication and ethical decision making skills using a variety of stakeholder inventories hypothetical scenarios discussion questions and professional profiles Students will also gain exposure to a mixture of discrete and ongoing crises preparing them to manage both one time crises and continuing crises

*Technological Innovation in Legacy Sectors* William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living *Technological Innovation in Legacy Sectors* uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S's still strong research oriented innovation

system     Routledge Handbook on Information Technology in Government Yu-Che Chen, Michael J. Ahn, 2017-02-17 The explosive growth in information technology has ushered in unparalleled new opportunities for advancing public service Featuring 24 chapters from foremost experts in the field of digital government this Handbook provides an authoritative survey of key emerging technologies their current state of development and use in government and insightful discussions on how they are reshaping and influencing the future of public administration This Handbook explores Key emerging technologies i e big data social media Internet of Things IOT GIS smart phones mobile technologies and their impacts on public administration The impacts of the new technologies on the relationships between citizens and their governments with the focus on collaborative governance Key theories of IT innovations in government on the interplay between technological innovations and public administration The relationship between technology and democratic accountability and the various ways of harnessing the new technologies to advance public value Key strategies and conditions for fostering success in leveraging technological innovations for public service This Handbook will prove to be an invaluable guide and resource for students scholars and practitioners interested in this growing field of technological innovations in government     **State of the Arctic Marine Biodiversity Report** ,2017 This is the first report of the Circumpolar Biodiversity Monitoring Program CBMP to summarize status and trends in biotic elements in the arctic marine environment The effort has identified knowledge gaps in circumpolar biodiversity monitoring CBMP is the cornerstone program of Conservation of Arctic Flora and Fauna CAFF     **EU Global Strategy and Human Security** Mary Kaldor, Iavor Rangelov, Sabine Selchow, 2018-04-17 This volume examines the EU s Global Strategy in relation to human security approaches to conflict Contemporary conflicts are best understood as a social condition in which armed groups mobilise sectarian and fundamentalist sentiments and construct a predatory economy through which they enrich themselves at the expense of ordinary citizens This volume provides a timely contribution to debates over the role of the EU on the global stage and its contribution to peace and security at a time when these discussions are reinvigorated by the adoption of the EU Global Strategy It discusses the significance of the Strategic Review and the Global Strategy for the re articulation of EU conflict prevention crisis management peacebuilding and development policies in the next few years It also addresses the key issues facing EU security in the 21st century including the conflicts in Ukraine Libya and Syria border security cyber security and the role of the private security sector The book concludes by proposing that the EU adopts a second generation human security approach to conflicts as an alternative to geopolitics or the War on Terror taking forward the principles of human security and adapting them to 21st century realities This book will be of interest to students of human security European foreign and security policy peace and conflict studies global governance and IR in general     *Principles of Clinical Medicine for Space Flight* Michael R. Barratt, Ellen S. Baker, Sam L. Pool, 2020-01-02 In its first edition *Principles of Clinical Medicine for Space Flight* established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers It



received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine Certifying Examination under the American Board of Preventive Medicine In the intervening few years the continuous manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space The Second Edition incorporates this information Gaps in the first edition will be addressed with the addition new and revised chapters This edition is extensively peer reviewed and represents the most up to date knowledge

**Climate change and agriculture in the Sudan: Impact pathways beyond changes in mean rainfall and temperature** Siddig, Khalid, Stepanyan, Davit, Wiebelt, Manfred, Zhu, Tingju, Grethe, Harald, 2018-09-26 Several environmental changes have occurred in the Sudan in the past several are ongoing and others are projected to happen in the future The Sudan has witnessed increases in temperature floods rainfall variability and concurrent droughts In a country where agriculture which is mainly rainfed is a major contributor to gross domestic product foreign exchange earnings and livelihoods these changes are especially important requiring measurement and analysis of their impact This study not only analyzes the economy wide impacts of climate change but also consults national policy plans strategies and environmental assessments to identify interventions which may mitigate the effects We feed climate forcing water demand and macro socioeconomic trends into a modelling suite that includes models for global hydrology river basin management water stress and crop growth all connected to the International Model for Policy Analysis of Agricultural Commodities and Trade IMPACT The outcomes of this part of the modeling suite are annual crop yields and global food prices under various climate change scenarios until 2050 The effects of such changes on production consumption macroeconomic indicators and income distribution are assessed using a single country dynamic Computable General Equilibrium CGE model for the Sudan Additionally we introduce yield variability into the CGE model based on stochastic projections of crop yields until 2050 The results of the model simulations reveal that while the projected mean climate changes bring some good news for the Sudan extreme negative variability costs the Sudan cumulatively between 2018 and 2050 US 109 5 billion in total absorption and US 105 5 billion in GDP relative to a historical mean climate scenario without climate change

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step 1 use a formal tone the tone of the character certificate should be formal and professional use appropriate language and avoid using slang or informal words step 2 include the recipient s information include the recipient s full name address and contact details this information should be placed at the top of the certificate

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