

Question 2

2.1 Refer to the following diagrams that represent two generalised cells and answer the questions that follow.



2.1.1 Identify the type of cells represented by Cell A and B.

2.1.2 Tabulate TWO structural differences between Cell A and Cell B.

|                          |                       |
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| Cell A                   | Cell B                |
| 1. Thick cell wall       | 1. Thin cell membrane |
| 2. Large central vacuole | 2. Large nucleus      |
| 3. Nucleus               | 3. Mitochondria       |
| 4. Mitochondria          | 4. Lysosomes          |
| 5. Chloroplasts          | 5. Centrioles         |

2.1.4 Supply the NUMBER AND NAME of the organelle indicated by the letter A in the diagram below.

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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# Memorandum Life Sciences Paper September 2014

**Bessma Momani**



## **Memorandum Life Sciences Paper September 2014:**

*Nimble* Baba Prasad, 2015-04-24 The world today can be best described by one word turbulence As change rages all around how can you as an individual or as an organization take advantage of unexpected opportunities and succeed in difficult circumstances In a book that challenges traditional notions of strategy Baba Prasad draws on his research at some of the world's best business schools to show how intelligence can help you and your business navigate this maelstrom The Intelligences Framework presented in *Nimble* goes beyond the common management concept of agility it presents an immensely practical and hands on approach for companies and individuals to develop five kinds of intelligences and apply them in different settings for maximum benefit Bridging strategy leadership and innovation and with vivid illustrations *Nimble* provides a path breaking assessment methodology and a systematic four step approach that every company and individual can use to lead amid turbulence *Children's Understandings of Well-being* Tobia Fattore, Jan Mason, Elizabeth Watson, 2016-07-14

The book presented here describes an outstanding attempt not only to include children's views but to partner with children to develop the concept of well being and to study the phenomenon as the children understand it The authors do this by placing the concept of children's well being within the existing discourses on the topic and by developing their unique theoretical approach to the concept Then and based on what children told them the authors identify different domains and dimensions of children's well being and touch upon its multifaceted nature The book concludes with drawing research and policy implications from an integrated summary of the study's findings and lists indicator concepts that present an alternative framework and conceptualisation of well being from a child standpoint **Shared Governance for**

**Sustainable Working Landscapes** Timothy M. Gieseke, 2016-08-05 Sustaining our agricultural landscapes is no longer just a technical scientific or even political problem but it has evolved into a socially complex so called wicked problem of conflicting social governance and economics This creates an extreme economic obstacle where the value of ecosystem services remains low and diffuse and the transactions costs remain high and multiple Using Uber like business platform technology and a shared governance model a symbiotic demand for environmental benefits is created Enabling multi sector transactions for environmental benefits this platform innovation would remedy the tragedy of the commons the economic nemesis to achieving landscape sustainability In a nutshell to sustain our agricultural landscapes a transdisciplinary approach supported by a shared governance model housed within a multi sided platform is needed This book introduces an assessment framework identifying governance actors styles and ratios for socio ecological systems The assessment uses a new governance compass to identify the types of actors completing which tasks and identifies the styles of governance used to complete the tasks It is aimed to anyone involved in sustainability science agricultural policy planning or integrated landscape design **Governomics** Ian McAuley, Miriam Lyons, 2015-05-01

People have good reason to demand decent public education and a well funded health system to yearn for an economy that doesn't trash the environment or for a smaller

gap between rich and poor Almost without exception sound economics is on their side We've grown used to public debates that pit people and the planet against an abstract distorted image of the economy but it doesn't have to be this way Governomics shows that an emaciated state is bad for business and that standing up for government means standing up for a public sector that truly serves the public Everybody knows governments are wasteful incompetent and a drag on the economy But if you're not sure that's true read this book Ross Gittins Sydney Morning Herald and The Age Governomics shows that a market economy can only work when sustained by a strong and active public sector It will inject some much needed economic sanity into conversations on the role of government in Australia John Quiggin Australian Research Council Laureate Fellow University of Queensland

*Spinglish* Henry Beard, Christopher Cerf, 2015-06-02 Spinglish the devious dialect of English used by professional spin doctors is all around us And the fact is until you've mastered it politicians and corporations not to mention your colleagues and friends will continue putting things over on you and generally getting the better of you every minute of every day without your even knowing it However once you perfect the art of terminological inexactitude you'll be the one manipulating and one upping everyone else And here's the beauty part Henry Beard and Christopher Cerf authors of the New York Times semi bestseller The Official Politically Correct Dictionary and Handbook have compiled this handy yet astonishingly comprehensive lexicon and translation guide a fictionary if you will to help you do just that If you want to succeed in business or politics sports the arts or life in general without really lying this is the book for you Your results may vary Spinglish includes these nifty bits of spurious verbiage and over a thousand more aesthetic procedure face lift dairy nutrients cow manure enhanced interrogation techniques torture For your convenience For our convenience hands on mentoring sexual relations with a junior employee incomplete success failure rightsizing firing people zero tasking doing nothing With each and every entry sourced from some of the greatest real life language benders in the world today you're virtually guaranteed to have the perfectly chosen tried and untrue term right at the tip of your forked tongue Wish you could nimbly sidestep a question without batting an eye Not sure how to apologize while also not apologizing Spinglish has you covered Simply consult this convenient shoot from the lip glossary and before you know it you'll be telling it like it isn't it wasn't and it couldn't ever have been

**Digital Cash** Finn Brunton, 2019-06-25 The fascinating untold story of digital cash and its creators from experiments in the 1970s to the mania over Bitcoin and other cryptocurrencies Bitcoin may appear to be a revolutionary form of digital cash without precedent or prehistory In fact it is only the best known recent experiment in a long line of similar efforts going back to the 1970s But the story behind cryptocurrencies like Bitcoin and its blockchain technology has largely been untold until now In Digital Cash Finn Brunton reveals how technological utopians and political radicals created experimental money to bring about their visions of the future protecting privacy or bringing down governments preparing for apocalypse or launching a civilization of innovation and abundance that would make its creators immortal The incredible story of the pioneers of cryptocurrency takes us from

autonomous zones on the high seas to the world's most valuable dump from bank runs to idea coupons from time travelers in a San Francisco bar to the pattern securing every twenty dollar bill and from marketplaces for dangerous secrets to a tank of frozen heads awaiting revival in the far future Along the way Digital Cash explores the hard questions and challenges that these innovators faced How do we learn to trust and use different kinds of money What makes digital objects valuable How does currency prove itself as real to us What would it take to make a digital equivalent to cash something that could be created but not forged exchanged but not copied and which reveals nothing about its users Filled with marvelous characters stories and ideas Digital Cash is an engaging and accessible account of the strange origins and remarkable technologies behind today's cryptocurrency explosion

**Arab Dawn** Bessma Momani, 2015-11-26 In the West news about the Middle East is dominated by an endless stream of reports and commentary about civil war sectarian violence religious extremism and economic stagnation But do they tell the full story For instance who knew that university enrolment in the war torn Palestinian territories exceeds that of Hong Kong or that more than a third of Lebanese entrepreneurs are women Change is on its way in the Middle East argues Bessma Momani and its cause is demographic Today one in five Arabs is between the ages of fifteen and twenty four Young optimistic and increasingly cosmopolitan their generation will shape the region's future Drawing on interviews surveys and other research conducted with young people in fifteen countries across the Arab world Momani describes the passion for entrepreneurship reform and equality among Arab youth With insightful political analysis based on the latest statistics and first hand accounts Arab Dawn is an invigorating study of the Arab world and the transformative power of youth

**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

**The Politics and Crisis Management of Animal Health Security** John Connolly, 2016-03-09 The Politics and Crisis Management of Animal Health Security addresses the 2001 foot and mouth epidemic in the United Kingdom one of if not the most significant crises ever to face the UK farming industry Underpinned by interviews with politicians and bureaucrats and with significant primary documentary analysis the book shows that the crisis was a critical juncture in how disease outbreaks have been planned and managed ever since The author explores how this event affected policy and governance arrangements for managing subsequent disease induced threats such

as avian influenza and bovine TB and concludes by considering the temporality of lesson learning by the UK government including the current and future challenges associated with managing incongruent risks e g flood protection swine flu and Ebola This book provides students of public policy and administration with a significant illustration of how key concepts and analytical lenses from public policy can be applied to the study of the contours of practical policy change

**Dismantling Canada** Brooke Jeffrey, 2015-04-01 Stephen Harper is the first prime minister to represent the new Conservative Party and the first to declare that his goals include nothing less than changing Canada by entrenching conservative values and replacing the Liberals as the country's natural governing party After nine years of a closed door governing style his agenda is no longer hidden As Brooke Jeffrey outlines in compelling detail in *Dismantling Canada* Harper's agenda is driven by a desire to impose order and tradition at home and to take firm stands on emerging issues abroad With only thirty nine per cent of the popular vote in 2011 his government appears to have gone a surprisingly long way towards achieving those objectives with little or no concerted public opposition Illuminating the importance and influence of British and especially American right wing conservatives on Harper's strategies the book explains how he has achieved so much through a combination of stealth pragmatism and ruthless determination Providing fascinating insight into the origins of a new conservative vision for the economy federalism and domestic and foreign policies *Dismantling Canada* explores Harper's successes and failures and evaluates the likely outcome of his long term agenda to change Canada into a country most Canadians would not recognize

*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

**The Hermeneutic Side of Responsible Research and Innovation** Armin Grunwald,2016-11-22 The book investigates the meaning of RRI if little or no valid knowledge about consequences of innovation and technology is available It proposes a hermeneutical turn to investigate narratives about possible futures with respect to their contemporary meaning instead of regarding them as anticipations of the future

**Building Habitats on the Moon** Haym Benaroya,2018-01-11 Designing a habitat for the lunar surface You will need to know more than structural engineering There are the effects of meteoroids radiation and low gravity Then there are the psychological and psychosocial aspects of living in close quarters in a dangerous environment far away from home All these must be considered when the habitat is sized materials specified and structure designed This book provides an overview of various concepts for lunar habitats and structural designs and characterizes the lunar environment the technical and the nontechnical The designs take into consideration psychological comfort structural strength against seismic and thermal activity as well as internal pressurization and 1 6 g Also discussed are micrometeoroid modeling risk and redundancy as well as probability and reliability with an introduction to analytical tools that can be useful in modeling uncertainties

**Educating for Professional Life** Elaine Penn,2017-09-26 The story of the University of Westminster is the fifth volume in a series of titles exploring the University s long and diverse history This book celebrates the twenty fifth anniversary of the institution gaining university status the right to award its own degrees and to participate in publicly funded research Drawing on extensive research conducted in the University of Westminster Archive this volume investigates the evolution from Polytechnic to University within the broader context of the transformation of UK higher education in the late twentieth and early twenty first centuries

**Bridging the Theory-Practice Divide in International Relations** Daniel Maliniak,Susan Peterson,Ryan Powers,Michael J. Tierney,2020-05-01 There is a widening divide between the data tools and knowledge that international relations scholars produce and what policy practitioners find relevant for their work In this first of its kind conversation leading academics and practitioners reflect on the nature and size of the theory practice divide They find the gap varies by issue area and over time The essays in this volume use data gathered by the Teaching Research and International Policy TRIP Project over a fifteen year period As a whole the volume analyzes the structural factors that affect the academy s ability to influence policy across issue areas and the professional incentives that affect scholars willingness to attempt to do so Individual chapters explore

these questions in the areas of trade finance human rights development environment nuclear weapons and strategy interstate war and intrastate conflict Each substantive chapter is followed by a response from a policy practitioner providing their perspective on the gap and the possibility for academic work to have an impact Bridging the Theory Practice Divide in International Relations provides concrete answers and guidance about how and when scholarship can be policy relevant

**Everyday Chemicals** Gerald A. LeBlanc, 2023-02-21 What is the likelihood that common chemicals such as bisphenol A which is found in plastic water bottles are harming us Should shoppers be concerned about pesticide residues on fruits and vegetables in the supermarket produce aisle Are we risking adverse health effects when we use insect repellent that contains DEET or slather on sunscreen Modern life requires us to navigate an endless sea of chemicals How do we know whether we need to worry about them This book is a layperson's guide to understanding chemical risk The toxicologist Gerald A LeBlanc offers a nontechnical overview of the key factors in evaluating whether exposure to chemicals in our daily lives could be harmful He leads readers through the basic concepts of risk assessment using real world examples LeBlanc emphasizes that chemical hazard depends on the level of exposure and provides practical strategies for sensible decision making The book features a series of accessible case studies describing how we all can reach rational conclusions about the danger of typical chemical exposures we experience every day Giving nonexpert readers the tools to understand chemical risks this book shows how critical thinking and science literacy can help us live with less fear and anxiety and make reasonable choices when confronted with potential hazards

**An Age of Accountability** John L. Rury, 2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree

**White-Collar Crime** Michael L. Benson, Sally S. Simpson, 2017-12-22 White Collar Crime An Opportunity Perspective analyzes white collar crime within a coherent theoretical framework Using the opportunity perspective which assumes that all crimes depend on offenders recognizing an opportunity to commit an offense the authors uncover the processes and situational conditions that facilitate white collar crimes In addition they offer potential solutions to this persistent and widespread social problem without being reductive in their treatment of the difficulties of control With this third edition Benson and Simpson have added substantive online teaching materials and expanded their



coverage with up to date case studies and discussions of recent investigations into white collar crime and control These timely updates reaffirm this accessible and rigorous book as a core resource for courses on white collar crime     Human Behavior and the Social Environment, Micro Level Katherine Van Wormer,2017 Unique to Human Behavior and the Social Environment Micro Level is the focus on trauma and resilience in its exploration of human behavior across the life span Illustrations are drawn from the arts as well as recent brain research from recent biological research     **The Rhetorical Invention of America's National Security State** Marouf Hasian Jr.,Sean Lawson,Megan D. McFarlane,2015-07-29 The Rhetorical Invention of America s National Security State examines the rhetoric and discourse produced by and constitutive of America s national security state Hasian Lawson and McFarlane illustrate the importance of rhetoric to the expansion of the American national security state in the post 9 11 era through their examination of the global war on terrorism enhanced interrogation techniques drone crew stress activities of Edward Snowden rise of Special Forces and popular representations of counterterrorism The coauthors contend this expansion was not the result of lone imperial executives or a nefarious state within a state but was co produced by elite and non elite Americans alike who not only condoned but also in many cases demanded the expansion of the national security state This work will be of interest to scholars in communication studies and political science

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