

- 2.2 Study the diagram of four plant species below and answer the questions that follow.



- 2.2.1 What is this type of representation called? (1)
- 2.2.2 Which characteristic is found in the protea that is not found in the pine tree? (2)
- 2.2.3 During which period did the ancestor of the protea and the pine tree diverge (branched off)? (1)
- (4)

- 2.3 Study the sketches of plants below and answer the questions that follow.



- 2.3.1 Identify the plant groups under which plants A, B, C and D are classified. (4)
- 2.3.2 Identify the structure numbered 2. (1)
- 2.3.3 Plants B and C both produce seeds. Explain the importance of seeds for both these plants. (4)
- 2.3.4 Give a reason why plant A needs water for sexual reproduction. (2)
- (11)

- 2.4 Use your knowledge and compare the jelly fish, tapeworm and earthworm in a table regarding the following characteristics.
- 2.4.1 symmetry
- 2.4.2 coelom
- 2.4.3 blood system
- (10)

QUESTION 3

- 3.1 Read the passage below and answer the questions that follow.

Peat lands are special wetlands that play a very important role in ecology. A peat land, of approximately 6 000 years old, near Mafikeng is almost destroyed because of excessive extraction of water from the nearby Molepo river. The water is extracted for human consumption.

Peat lands like the one near Mafikeng is exceptional and play an important role in storing water as well as preventing climate changes.

Dr Phil-Louis Grundling said that carbon that is 'held' or 'stored' by peat lands combats climate change because it decreases the amount of carbon in the atmosphere.

Peat lands trap about one third of the world's carbon. Approximately 50% of wetlands worldwide are peat lands. However in South Africa about 10% of the wetlands are peat lands.

Grundling explained that peat lands can hold about 1 000 times its own mass in water. This replenishes the water table and is the source that keeps streams flowing. The "sponge effect" of the peat also makes it possible to store water that is then released during dry seasons.

Dr Grundling said that it might be too late to restore the peat land near Mafikeng but it might be possible to restore some parts of it if more water is supplied to this peat land.

The result of this destruction is depletion of the water table. The habitat of numerous fish and frog species that lived in this peat land was also destroyed.

From: Beeld: 24 September 2016.

- 3.1.1 Give TWO other reasons (not mentioned in the passage) that can lead to the destruction of wetlands. (2)
- 3.1.2 Discuss reasons from the passage regarding the importance of these specific wetlands for the environment. (4)
- 3.1.3 Suggest a way in which this peat land near Mafikeng can be restored. (2)
- (8)

Life Science Paper 2 November 2014 Question Paper

**National Research Council, Institute of
Medicine, Board on Agriculture and
Natural Resources, Food and Nutrition
Board, Committee on a Framework for
Assessing the Health, Environmental,
and Social Effects of the Food System**

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Rethinking Learning in an Age of Digital Fluency Maggi Savin-Baden, 2015-03-05 This is a book that I am going to have to own and will work to find contexts in which to recommend It cuts obliquely through so many important domains of evidence and scholarship that it cannot but be a valuable stimulus Hamish Macleod University of Edinburgh Digital connectivity is a phenomenon of the 21st century and while many have debated its impact on society few have researched relationship between the changes taking place and the actual impact on learning Rethinking Learning in an Age of Digital Fluency examines what kind of impact an increasingly connected environment is having on learning and what kind of culture it is creating within learning settings Engagement with digital media and navigating through digital spaces with ease is something that many young people appear to do well although the tangible benefits of this are unclear This book therefore will present an overview of current research and practice in the area of digital tethering whilst examining how it could be used to harness new learning and engagement practices that are fit for the modern age Questions that the book also addresses include Is being digital tethered a new learning nexus Are social networking sites spaces for co production of knowledge and spaces of inclusive learning Are students who are digitally tethered creating new learning maps and pedagogies Does digital tethering enable students to use digital media to create new learning spaces This fascinating and at times controversial text engages with numerous aspects of digital learning amongst undergraduate students including mobile learning individual and collaborative learning viral networking self publication and identity dissemination It will be of enormous interest to researchers and students in education and educational psychology Interdisciplinary Behavior and Social Sciences Ford Lumban Gaol, 2015-02-27 The human aspect plays an important role in the social sciences The behavior of people has become a vital area of focus in the social sciences as well Interdisciplinary Behavior and Social Sciences contains papers that were originally presented at the 3rd International Congress on Interdisciplinary Behavior and Social Science 2014 ICIBSoS 2014 Self-determination in Health Care Leroy C. Edozien, 2016-03-03 It is generally accepted in legal and bioethical discourse that the patient has a right to self determination In practice though this is often not the case Paternalism is waning and it is increasingly recognised that there are values other than medical factors which determine the choices that patients make Unfortunately these developments have not resulted in huge advances for patient self determination which is largely because the consent model has fundamental flaws that constrain its effectiveness This book sets out to offer an alternative model to consent In the property model proposed here the patient's bodily integrity is protected from unauthorised invasion and their legitimate expectation to be provided with the relevant information to make an informed decision is taken to be a proprietary right It is argued that the property model potentially overcomes the limitations of the consent model including the obstacle caused by the requirement to prove causation in consent cases The author proposes that this model could in the future provide an alternative or complementary approach for the courts to

consider when dealing with cases relating to self determination in health care Rethinking Research Methods in an Age of Digital Journalism Michael Karlsson,Helle Sjøvaag,2018-10-18 The digital infrastructure of media production dissemination and consumption is becoming increasingly complex presenting the challenge of how we should research the digital journalism environment Digital journalism takes many forms we therefore need to revise improve adjust and even invent methods to understand emerging forms of journalism In this book scholars at the forefront of methodological innovations in digital journalism research share their insights on how to collect process and analyse the diverse expressions of digital journalism including online news search results hyperlinks and social media posts As digital journalism content often comes in the form of big data many of these new approaches depart from the traditional methods used in media research in significant ways As we move towards new ways of understanding digital journalism the methods developed for such purposes also need to be grounded in scientific rigour This book aims to share some of the emerging processes by which these methods tools and approaches are designed implemented and validated As such this book not only constitutes a benchmark for thinking about research methods in digital journalism it also provides an entry point for graduate students and seasoned scholars aiming to do research on digital journalism This book was originally published as a special issue of Digital Journalism Reception of Northrup Frye ,2021-09-23 The Reception of Northrup Frye takes a thorough accounting of the presence of Frye in existing works and argues against Frye s diminishing status as an important critical voice **Disasters, Risks and Revelation** Steve Matthewman,2016-04-29 Disasters are part of the modern condition a source of physical anxiety and existential angst and they are increasing in frequency cost and severity Drawing on both disaster research and social theory this book offers a critical examination of their causes consequences and future avoidance **Pharmaceutical Industry and Public Policy in Post-reform India** Reji K. Joseph,2015-07-24 This book examines the impact of economic reforms in India on the pharmaceutical industry and access to medicines It traces the changing production and trade pattern of the industry research and development R D preferences and strategies of Indian pharmaceutical firms patent system alongside pricing policy measures and their shortcomings It also analyses the public health financing system in India driven largely by out of pocket expenditure about 60 per cent and characterised by very high share of medicines in total health expenditure A masterful insight into a topical area the work will be indispensable to those working on pharmaceutical industry and public policy It will be of interest to researchers scholars students and policy makers of economics industrial policy public policy intellectual property rights and health financing **Ramified Natural Theology in Science and Religion** Rodney Holder,2020-10-15 This book offers a rationale for a new ramified natural theology that is in dialogue with both science and historical critical study of the Bible Traditionally knowledge of God has been seen to come from two sources nature and revelation However a rigid separation between these sources cannot be maintained since what purports to be revelation cannot be accepted without qualification rational argument is needed to infer both the existence of God from

nature and the particular truth claims of the Christian faith from the Bible Hence the distinction between bare natural theology and ramified natural theology The book begins with bare natural theology as background to its main focus on ramified natural theology Bayesian confirmation theory is utilised to evaluate competing hypotheses in both cases in a similar manner to that by which competing hypotheses in science can be evaluated on the basis of empirical data In this way a case is built up for the rationality of a Christian theist worldview Addressing issues of science theology and revelation in a new framework this book will be of keen interest to scholars working in Religion and Science Natural Theology Philosophy of Religion Biblical Studies Systematic Theology and Science and Culture White Paper on Science and Technology ,2015

Pandora's Gamble Alison Young,2023-04-25 Named to Kirkus Reviews Best Books of 2023 A remarkable book The New York Times This fearless deeply reported book about laboratory accidents asks the haunting question some elite scientists don't want the public to entertain Did the COVID 19 pandemic start with a lab leak in Wuhan China This is an obvious question Yet there's been an extraordinary effort by government officials in China as well as leading scientific experts in the United States and around the world to shut down any investigation or discussion of the lab leak theory In private however some of the world's elite scientists have seen a lab accident as a very real and horrifying possibility They know what the public doesn't Lab accidents happen with shocking frequency Even at the world's best run labs That's among the revelations from Alison Young the award winning investigative reporter who has spent nearly 15 years uncovering shocking safety breaches at prestigious U.S. laboratories for USA Today and other respected news outlets In Pandora's Gamble Young goes deep into the troubling history and enormous risks of leaks and accidents at scientific labs She takes readers on a riveting journey around the world to some of the worst lab mishaps in history including the largely unknown stories of the lab workers at the U.S. Army's Camp Detrick who suffered devastating infections at alarming rates during World War II And her groundbreaking reporting exposes for the first time disturbing new details about recent accidents at prestigious laboratories and the alarming gaps in government oversight that put all of us at risk Sourced through meticulous reporting and exclusive interviews with key players including Dr Anthony Fauci former CDC Director Tom Frieden and others Young's examination reveals that the only thing rare about lab accidents is the public rarely finds out about them Because when accidents happen powerful people and institutions often work hard to keep the information secret Culture of Death Wesley J.

Smith,2016-05-17 When his teenage son Christopher brain damaged in an auto accident developed a 105 degree fever following weeks of unconsciousness John Campbell asked the attending physician for help The doctor refused Why bother The boy's life was effectively over Campbell refused to accept this verdict He demanded treatment and threatened legal action The doctor finally relented With treatment Christopher's temperature which had eventually reached 107.6 degrees subsided almost immediately Soon afterward the boy regained consciousness and was learning to walk again This story is one of many Wesley J. Smith recounts in his award winning classic critique of the modern bioethics movement Culture of

Death In this newly updated edition Smith chronicles how the threats to the equality of human life have accelerated in recent years from the proliferation of euthanasia and the Brittany Maynard assisted suicide firestorm to the potential for death panels posed by Obamacare and the explosive Terri Schiavo controversy Culture of Death reveals how more and more doctors have withdrawn from the Hippocratic Oath and how bioethicists influence policy by posing questions such as whether organs may be harvested from the terminally ill and disabled This is a passionate yet coolly reasoned book about the current crisis in medical ethics by an author who has made the new thanatology his consuming interest *Appearance in Reality*

John Heil, 2021 How does the way things appear to us relate to the way things really are Science tells us that the world is very different from the way we experience it John Heil offers an explanation of why the scientific image of the world that we get from physics is our best guide to the nature of reality to what the appearances are appearances of Augmented Brett King, Andy Lark, Alex Lightman, JP Rangaswami, 2016-05-15 The Internet and smartphone are just the latest in a 250 year long cycle of disruption that has continuously changed the way we live the way we work and the way we interact The coming Augmented Age however promises a level of disruption behavioural shifts and changes that are unparalleled While consumers today are camping outside of an Apple store waiting to be one of the first to score a new Apple Watch or iPhone the next generation of wearables will be able to predict if we're likely to have a heart attack and recommend a course of action We watch news of Google's self-driving cars but don't likely realise this means progressive cities will have to ban human drivers in the next decade because us humans are too risky Following on from the Industrial or machine age the space age and the digital age the Augmented Age will be based on four key disruptive themes Artificial Intelligence Experience Design Smart Infrastructure and HealthTech Historically the previous ages brought significant disruption and changes but on a net basis jobs were created wealth was enhanced and the health and security of society improved What will the Augmented Age bring Will robots take our jobs and AI's subsume us as inferior intelligences or will this usher in a new age of abundance Augmented is a book on future history but more than that it is a story about how you will live your life in a world that will change more in the next 20 years than it has in the last 250 years Are you ready to adapt Because if history proves anything you don't have much of a choice **Taiwan's Social Movements under Ma Ying-jeou** Dafydd

Fell, 2017-02-17 In the spring of 2014 the Sunflower Movement's three week occupation of the Legislative Yuan brought Taiwan back to international media attention It was the culmination of a series of social movements that had been growing in strength since 2008 and have become even more salient since the spring of 2014 Social movements in Taiwan have emerged as a powerful new actor that needs to be understood alongside those players that have dominated the literature such as political parties local factions Taishang China and the United States This book offers readers an introduction to the development of these social movements in Taiwan by examining a number of important movement case studies that focus on the post 2008 period The return of the Kuomintang KMT to power radically changed the political environment for Taiwan's

civil society and so the book considers how social activists responded to this new political opportunity structure The case chapters are based on extensive fieldwork and are written by authors from a variety of disciplinary backgrounds and methodological approaches in some cases authors combine being both academics and activists themselves Together the chapters focus on a number of core issues providing the book with four key aims Firstly it investigates the roots of the movements and considers how to best explain their emergence Secondly it examines the development trajectories of these movements Thirdly it looks at the best way to explain their impact and development patterns and finally it assesses their overall impact questioning whether they can be regarded as successes or failures Covering a unique range of social movement cases the book will be of interest to students and researchers interested in Taiwanese society and politics as well as social movements and civil society

A Framework for Assessing Effects of the Food System National Research Council, Institute of Medicine, Board on Agriculture and Natural Resources, Food and Nutrition Board, Committee on a Framework for Assessing the Health, Environmental, and Social Effects of the Food System, 2015-06-17 How we produce and consume food has a bigger impact on Americans well being than any other human activity The food industry is the largest sector of our economy food touches everything from our health to the environment climate change economic inequality and the federal budget From the earliest developments of agriculture a major goal has been to attain sufficient foods that provide the energy and the nutrients needed for a healthy active life Over time food production processing marketing and consumption have evolved and become highly complex The challenges of improving the food system in the 21st century will require systemic approaches that take full account of social economic ecological and evolutionary factors Policy or business interventions involving a segment of the food system often have consequences beyond the original issue the intervention was meant to address A Framework for Assessing Effects of the Food System develops an analytical framework for assessing effects associated with the ways in which food is grown processed distributed marketed retailed and consumed in the United States The framework will allow users to recognize effects across the full food system consider all domains and dimensions of effects account for systems dynamics and complexities and choose appropriate methods for analysis This report provides example applications of the framework based on complex questions that are currently under debate consumption of a healthy and safe diet food security animal welfare and preserving the environment and its resources A Framework for Assessing Effects of the Food System describes the U S food system and provides a brief history of its evolution into the current system This report identifies some of the real and potential implications of the current system in terms of its health environmental and socioeconomic effects along with a sense for the complexities of the system potential metrics and some of the data needs that are required to assess the effects The overview of the food system and the framework described in this report will be an essential resource for decision makers researchers and others to examine the possible impacts of alternative policies or agricultural or food processing practices

Job interview questions and answers for employment on Offshore Oil & Gas Rigs

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 289 questions and answers for job interview and as a BONUS web addresses to 289 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

Ontological Politics in a Disposable World Luigi Pellizzoni,2016-03-03 This book explores the intertwining of politics and ontology shedding light on the ways in which as our ability to investigate regulate appropriate enhance and destroy material reality have developed so new social scientific accounts of nature and our relationship with it have emerged together with new forms of power Engaging with cutting edge social theory and elaborating on the thought of Foucault Heidegger Adorno and Agamben the author demonstrates that the convergence of ontology with politics is not simply an intellectual endeavour of growing import but also a governmental practice which builds upon neoliberal programmes the renewed accumulation of capital and the development of technosciences in areas such as climate change geoengineering and biotechnology With shifts in our accounts of nature have come new means of mastering it giving rise to unprecedented forms of exploitation and destruction with related forms of social domination In the light of growing social inequalities environmental degradation and resource appropriation and commodification Ontological Politics in a Disposable World The New Mastery of Nature reveals the need for new critical frameworks and oppositional practices to challenge the rationality of government that lies behind these developments a rationality that thrives on indeterminacy and an account of materiality as comprised of fluid ever changing states simultaneously agential and pliable to which social theory increasingly subscribes without questioning enough its underpinnings and implications A theoretically sophisticated reassessment of the relationship between ontology and politics which draws the contours of a renewed humanism to allow for a more harmonious relationship with the world this book will appeal to scholars in social and political theory environmental sociology geography science and technology studies and contemporary European thought on the material world

Governing Intellectual Property Rights Within Publicly Funded Biobanks Rajam Neethu,2019-06-21 Governing Intellectual Property Rights Within Publicly Funded Biobanks R Neethu The boom in biobanks and health databases as research infrastructures have evoked various legal and ethical debates Since then numerous new developments have emerged such as digitalization big data research and artificial intelligence which has important implications for biobank based research and collaborations This new paradigm offers new legal challenges for commercial involvement particularly within a publicly funded setting In this innovative book the author shows that securing maximum social benefit out of the knowledge emanating from the use of biobank resources lies in

managing intellectual property inputs and outputs effectively in keeping with the values core to such research Focusing on the challenges of involving intellectual property rights IPRs particularly in the precompetitive phase of biobank based research the book offers an extensive understanding of the role of different IPRs and identifies the gaps in the law and its implications for biobanks The analysis covers important aspects in relation to biobanks such as Digital integration and biomedical data storage Ownership of biological samples Commercialization and benefit sharing Partnership models Public sector research Disposition of samples Consent Cross border exchange Trade secrecy Privacy Regulatory stewardship Business strategies Ethical considerations over biological resources Patenting of inventions relating to personalized medicine Ethical parameters within patent law and Rights regarding genetic data and databases The book includes observations case studies and interviews conducted by the author In conclusion the author offers cogent recommendations for legal interoperability of IP rules and research practices designed to enhance the ability of biobanks to share access and reuse data This book is the first of its kind to explore the organizational and legislative choices for biobanks particularly while engaging in the protection of research results and technology transfer within a publicly funded setting It will be of substantial interest to all stakeholders in biobanking especially policymakers biobankers and researchers working in the field of health law as well as for legal practitioners academics and patient interest groups

The Carbon Crunch

Dieter Helm,2015-01-01 In a new edition of his hard hitting book on climate change economist Dieter Helm looks at how and why we have failed to tackle the issue of global warming and argues for a new pragmatic rethinking of energy policy An optimistically levelheaded book about actually dealing with global warming Kirkus Reviews starred review Dieter Helm has turned his agile mind to one of the great problems of our age why the world s efforts to curb the carbon dioxide emissions behind global warming have gone so wrong and how it can do better Pilita Clark Financial Times

Food Redistribution in the Nordic Region

Gram-Hanssen, Irmelin,Hanssen, Ole Jørgen,Hultén, Johan,Silvennoinen, Kirsi,Werge, Mads,Stenmarck, Åsa,Aare, Ane Kirstine,2016-02-10 The Nordic Food Redistribution Project investigates food waste reduction through the redistribution of surplus food The project goal is to increase and improve redistribution activities from donors to food banks and charity organisations in order to enhance both environmental and social sustainability in the Nordic region The phase II report proposes best practice models concerning legislation organisation quality assurance and registration of food Report recommendations are addressed at redistribution and food serving actors donors and authorities and focus on how to improve the quality of redistributed food how to enhance collaboration between the various actors as well as how to prioritize and secure funding for redistribution activities The report is part of the Nordic Prime Ministers green growth initiative The Nordic Region leading in green growth

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