

- 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 pine tree that is not found in the olive tree? (2)
- 2.2.3 During which period did the ancestor of the olive tree and the palm tree diverge (branched off)? (1)
- (16)

- 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)

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The Trend Management Toolkit A. Kjaer, 2014-10-07 In a fast moving world businesses need to keep up with data analysis and pattern spotting to identify future opportunities Anne Lise Kjaer presents a unique methodology for global trend spotting along with practical tools and approaches to help companies and organizations analyse market changes and determine the way ahead

Genetic Discrimination Gerard Quinn, Aisling de Paor, Peter Blanck, 2014-11-20 As genetic technologies advance genetic testing may well offer the prospect of detecting the onset of future disabilities Some research also forwards that certain behavioural profiles may have a strong genetic basis such as the determination to succeed or the propensity for risk taking As this technology becomes more prevalent there is a danger that genetic information may be misused by third parties and that particular genetic profiles may be discriminated against by employers by providers of social goods and services such as insurance companies and even by educational facilities This book explores the different forms and potential uses of genetic testing Drawing together leading experts in disability law bioethics health law and a range of related fields it highlights the ethical and legal challenges arising as a result of emerging and rapidly advancing genetic science On examining transatlantic perspectives on the matter chapters in the book ask whether the US Genetic Information Nondiscrimination Act GINA is proving to be an effective tool in addressing the issue of genetic discrimination and alleviating fears of discrimination The book also reviews what insights may be gained from GINA within employment and health insurance contexts and asks how the UN Convention on the Rights of Persons with Disabilities CRPD may impact similar debates within the European Union The book focuses particularly on the legislative and policy framework in the European Union with an emphasis on the gaps in protection and the scope for specific legislative action in this area This book will be of great interest to scholars and students of discrimination law bioethics and disability law and will be of considerable use to legal practitioners medical practitioners and policy makers in this area

Production Chemicals for the Oil and Gas Industry, Second Edition Malcolm A. Kelland, 2014-03-13 Production chemistry issues result from changes in well stream fluids both liquid and gaseous during processing Since crude oil production is characterized by variable production rates and unpredictable changes to the nature of the produced fluids it is essential for production chemists to have a range of chemical additives available for rectifying issues that would not otherwise be fully resolved Modern production methods the need to upgrade crude oils of variable quality and environmental constraints demand chemical solutions Thus oilfield production chemicals are necessary to overcome or minimize the effects of the production chemistry problems Production Chemicals for the Oil and Gas Industry Second Edition discusses a wide variety of production chemicals used by the oil and gas industry for down hole and topside applications both onshore and offshore Incorporating the large amount of research and applications since the first edition this new edition reviews all past and present classes of production chemicals providing numerous difficult to obtain references especially SPE papers and patents Unlike other texts that focus on how products perform in the

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21st Century Homestead: Urban Agriculture Douglas Waterford, 2015-02-21 21st Century Homestead Urban Agriculture contains everything you need to stay up to date on urban agriculture

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

The Stationery Office Annual Catalogue Stationery Office (Great Britain), 2013 White Paper on Science and Technology, 2015 Social Welfare, 2017-04 *Canadian Journal of Fisheries and Aquatic Sciences*, 2014

Boon and Bane of not Being Subject to the Hayflick Limit Miriam Herbert, 2015-01-23 Pre University Paper from the year 2014 in

the subject Biology Cytology grade 15 Punkte 1 0 language English abstract All living things have to die This fundamental truth is held to apply even to the smallest unit of life cells However there is a phenomenon that is sometimes called biological immortality It refers to cells that live beyond their proclaimed life span which is roughly set by the Hayflick limit All cancer cells have acquired this property they divide indefinitely which is the essential problem with cancer cells On the other hand researchers are very much interested in the molecular mechanism behind this property to may be able to use it to extend life and rejuvenate cells Cells that are not subject to the Hayflick limit are generally seen as a threat to the human body however they are interesting subjects of experiments and scientists have already learned a great deal of knowledge by studying these mutants and continue to gain more important insights into the functioning of any kind of human body cell Immortal cells can be boon and bane for humankind Certain aspects of this issue will be discussed Eat Your Ice Cream Ezekiel J.

Emanuel,2026-01-06 From one of America s leading doctors an authoritative practical and entertaining guide to living a full and healthy life Everyone wants to live a full and healthy life and every day brings a tidal wave of attention grabbing misinformation faddish ideas from wellness influencers and bizarre advice from news outlets over extrapolating the results of tiny outlier studies The Wellness Industrial Complex prescribes conflicting and complicated regimens while promising us more time to enjoy in the future though it sure is demanding a lot of time right now But what actually matters most to our health and longevity What has the most robust actionable evidence What s the junk you can skip In Eat Your Ice Cream renowned physician Ezekiel J Emanuel argues that life is not a competition to live the longest and that wellness shouldn t be difficult it should be an invisible part of one s lifestyle that yields maximum health benefits with the least work Dr Emanuel cuts through the noise with wit and good humor giving readers just what they need simple high impact evidence based guidelines on such issues as alcohol consumption food and nutrition exercise sleep mental acuity and social engagement Resisting the tide of the latest trends to extend life at all costs Eat Your Ice Cream reveals that many of the tools for a long healthy and meaningful life are already within reach Pairing common sense with uncommon wisdom based on his decades of expertise and experience Dr Emanuel helps us consider which lifestyle changes are worth making and how to most easily implement them for longer healthier and happier lives Readers will come away with greater clarity and a deeper understanding of what really matters for well being connection purpose and sustainable choices backed by rigorous science

Acta Theriologica ,2014 **Bulletin of the National Museum of Nature and Science** ,2014 Proceedings of the Entomological Society of Washington ,2022 List of members in v 1 3 5 14 Industrial Development Report United Nations Publications,2016-01-14 This report looks at how technology and innovation achieves inclusive and sustainable industrial development ISID Its main finding is that ISID is feasible and technology can simultaneously serve all three dimensions of sustainability including economic social and environmental Rapid inclusive and sustainable industrialization can happen more frequently provided that policymakers firmly steer the industrialization process with opportune policies and avoid past

mistakes In some cases the spread of technology has not materialized in concrete growth opportunities because of the lack of technological capabilities Innovation needs to be supported by interventions strengthening the process from invention to adoption as capabilities are developed and high tech manufacturing sectors are created seeing higher rates of sustainable growth English Mechanic and Mirror of Science and Art ,1905 English Mechanic and Mirror of Science ,1878

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