



education

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Noord-Wes Departement van Onderwys
North West Department of Education
NORTH WEST PROVINCE**

PROVINCIAL ASSESSMENT

GRADE 10

ENGLISH FIRST ADDITIONAL LANGUAGE P1

NOVEMBER 2019

MARKING GUIDELINES

MARKS: 80

These marking guidelines consist of 8 pages.

Nov 2014 Plife Science

Sally Dalton-Brown



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Relations 2.2 - November 2014 Rod Bennison,Alma Massaro,Jessica Ullrich,2014-11-18 Table of Contents Of Cows and Women Gendered Human Animal Relationships in Finnish Agriculture Taija Kaarlenkaski Alpha the Figure in the Cage Juliet MacDonald The Living in Lucretius De rerum natura Animals ataraxia and Humans Distress Alma Massaro Low down Dirty Rat Popular and Moral Responses to Possums and Rats in Melbourne Siobhan O Sullivan Barbara Creed Jenny Gray Animal Perceptions in Animal Transport Regulations in the EU and in Finland Outi Ratamäki Boundary Transgressions the Human Animal Chimera in Science Fiction Evelyn Tsitas Animal Music Jessica Ullrich The Inspiring Journey of SIUA through Animal Lives Eleonora Adorni Animal Theology Gianfranco Nicora Alma Massaro A Bestiary in Five Fingers Sen McCorry A Pig Doesn't Make the Revolution Valentina Sonzogni

Big Data and Analytics Vincenzo Morabito,2015-01-31 This book presents and discusses the main strategic and organizational challenges posed by Big Data and analytics in a manner relevant to both practitioners and scholars The first part of the book analyzes strategic issues relating to the growing relevance of Big Data and analytics for competitive advantage which is also attributable to empowerment of activities such as consumer profiling market segmentation and development of new products or services Detailed consideration is also given to the strategic impact of Big Data and analytics on innovation in domains such as government and education and to Big Data driven business models The second part of the book addresses the impact of Big Data and analytics on management and organizations focusing on challenges for governance evaluation and change management while the concluding part reviews real examples of Big Data and analytics innovation at the global level The text is supported by informative illustrations and case studies so that practitioners can use the book as a toolbox to improve understanding and exploit business opportunities related to Big Data and analytics

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

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

For Bumpier Times Lakshmy Ramanathan,2015-11-01 In India the arrival of a child is not very different from a wedding It is a family event that every one looks forward to with great eagerness and enthusiasm Each family member also knows of an age old custom or belief they know to have benefited expectant mothers and newborns But how does a first time mother balance quirky community based rituals alongside New Age scientific norms For Bumpier Times is an attempt to capture the complexities of being pregnant in our society and to arm you with information that enables you to make empowered decisions By recording 101 practices from across the country and by having them reviewed by an eminent panel of doctors and experts the book hopes to dismiss your doubts and fears trace the origin behind these myths and beliefs and keep up with the latest in childbirth and care to help you achieve that balance crucial to welcoming your little one into your culture and world Written in an easy to understand Q A format Ramanathan has managed to create an elaborate guide on pregnancy and childcare specific to Indian mothers *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

Handbook of Universities and Regional Development Attila Varga,Katalin Erdős,2019-12-27 The Handbook on Universities and Regional Development offers a comprehensive and up to date insight into how academic institutions spur their surroundings The volume sheds light on universities as regional development actors from a historical perspective by introducing institutional changes and discussing the interrelatedness of society business and academia It provides detailed investigations on various knowledge transfer mechanisms to help understand the diverse ways through which ideas and intellectual property can flow between universities and businesses Detailed case studies from three continents Europe Asia and America demonstrate the highly contextual nature of the interactions between academia industry and government

Ecological and Environmental Science: A Research Perspective Prof. Dr. Nirmal Kumar, J.I.,Dr. Rita N. Kumar,Dr.

Hiren B. Soni, The book Ecological and Environmental Science A Research Perspective is a compilation of authors original research papers scientific articles review articles popular articles general articles and short notes on forest ecology wetland ecology plant ecology bird ecology and animal ecology The book is a perfect amalgamation of burgeoning and thrust topics spanning biodiversity and conservation and management of floral and faunal elements including ecology and biodiversity of phytoplankton zooplankton aquatic macrophytes mangroves terrestrial plants animals butterflies reptiles mammals and birds It covers ecological and environmental factors affecting abiotic and biotic components prevailed in forest desert grassland and wetland habitats and ecosystems The present book highlights field studies and laboratory investigations carried out by the authors during their research journey of 22 years 1998 2020 It discusses phenology ethnobotanical ethnomedicinal and aesthetic values of plants resource use patterns by local inhabitants socio cultural aspects livelihood dependency rare and endangered plants animals and birds anthropogenic pressures conservation and management strategies of endemic exotic and invasive species and so on The book covers unique and promising research topics e g hydrochemistry geochemistry biomonitoring of heavy metals in aquatic and terrestrial plants metal remediation environmental modeling environmental archaeology environmental bioindicators environmental forensics etc The authors believes that this book is a perfect blend of their research work on two integral branches of biology i e ecology and environmental science which will undoubtedly enrich and enhance the knowledge and awareness of laymen and scientific community world over especially in the field of ecology and biodiversity of plants animals and birds associated with physical chemical biological ecological and environmental factors The present book would certainly be useful and handy as a ready reference material for students academicians researchers scientists ecological and environmental consultants restoration specialists practitioners conservationists and biodiversity managers at regional national and global platform

Transfer Cells David McCurdy, Gregorio Hueros, 2015-05-18 Transfer cells are anatomically specialized cells optimized to support high levels of nutrient transport in plants These cells trans differentiate from existing cell types by developing extensive and localized wall ingrowth labyrinths to amplify plasma membrane surface area which in turn supports high densities of membrane transporters Unsurprisingly therefore transfer cells are found at key anatomical sites for nutrient acquisition distribution and exchange Transfer cells are involved in delivery of nutrients between generations and in the development of reproductive organs and also facilitate the exchange of nutrients that characterize symbiotic associations Transfer cells occur across all taxonomic groups in higher plants and also in algae and fungi Deposition of wall ingrowth like structures are also seen in syncytia and giant cells which function as feeding sites for cyst and root knot nematodes respectively following their infection of roots Consequently the formation of highly localized wall ingrowth structures in diverse cell types appears to be an ancient anatomical adaption to facilitate enhanced rates of apoplastic transport of nutrients in plants In some systems a role for transfer cells in the formation of an anti pathogen protective barrier at these symplastic discontinuities has been inferred Remarkably the extent of cell wall

ingrowth development at a particular site can show high plasticity suggesting that transfer cell differentiation might be a dynamic process adapted to the transport requirements of each physiological condition Recent studies exploiting different experimental systems to investigate transfer cell biology have identified signaling pathways inducing transfer cell development and genes gene networks that define transfer cell identity and or are involved in building the wall ingrowth labyrinths themselves Further studies have defined the structure and composition of wall ingrowths in different systems leading in many instances to the conclusion that this process may involve previously uncharacterized mechanisms for localized wall deposition in plants Since transfer cells play important roles in plant development and productivity the latter being relevant to crop yield especially so in major agricultural species such as wheat barley soybean and maize understanding the molecular and cellular events leading to wall ingrowth deposition holds exciting promise to develop new strategies to improve plant performance a key imperative in addressing global food security This Research Topic presents a timely and comprehensive treatise on transfer cell biology to help define critical questions for future research and thereby generating a deeper understanding of these fascinating and important cells in plant biology

Terrestrial and Extraterrestrial Space Dangers: Outer Space Perils, Rocket Risks and the Health Consequences of the Space Environment Dirk C. Gibson, 2015-02-24 Natural elements and cosmic phenomena in space such as asteroids comets meteors black holes and super bubbles pose a threat to the planet Earth and spacefarers in the near Earth environment *Terrestrial and Extraterrestrial Space Dangers* describes these dangers in the near Earth outer space environment The uniquely risky nature of rocket transportation is documented and quantified The human health consequences for vision muscles and the neurovestibular system for instance on exposure to an outer space environment are also explained in this book Readers will benefit from the extensive information offered within this text which is also accompanied with a bibliography of references This book offers a comprehensive primer for anyone interested in space travel and associated risk assessment [India, Europe and Asia](#) Rajendra K. Jain, 2021-04-01 This book examines the economic political and security interests of India Europe and the European Union towards Asia It analyses their participation in major Asian multilateral organizations responses to connectivity and Brussels differential engagement of China and India It evaluates Indian and European EU policy towards West Asia the Iran Imbroglio the Indo Pacific and South Asia Afghanistan Myanmar and Kashmir It highlights the elements of convergence divergence and assesses the challenges and prospects of India European cooperation in the context of a more assertive China and growing European engagement with Asia

Advanced AI Techniques and Applications in Bioinformatics Loveleen Gaur, Arun Solanki, Samuel Fosso Wamba, Noor Zaman Jhanjhi, 2021-10-17 The advanced AI techniques are essential for resolving various problematic aspects emerging in the field of bioinformatics This book covers the recent approaches in artificial intelligence and machine learning methods and their applications in Genome and Gene editing cancer drug discovery classification and the protein folding algorithms among others Deep learning which

is widely used in image processing is also applicable in bioinformatics as one of the most popular artificial intelligence approaches The wide range of applications discussed in this book are an indispensable resource for computer scientists engineers biologists mathematicians physicians and medical informaticists Features Focusses on the cross disciplinary relation between computer science and biology and the role of machine learning methods in resolving complex problems in bioinformatics Provides a comprehensive and balanced blend of topics and applications using various advanced algorithms Presents cutting edge research methodologies in the area of AI methods when applied to bioinformatics and innovative solutions Discusses the AI ML techniques their use and their potential for use in common and future bioinformatics applications Includes recent achievements in AI and bioinformatics contributed by a global team of researchers

Health 4.0: How Virtualization and Big Data are Revolutionizing Healthcare Christoph Thuemmler, Chunxue Bai, 2017-01-07

This book describes how the creation of new digital services through vertical and horizontal integration of data coming from sensors on top of existing legacy systems that has already had a major impact on industry is now extending to healthcare The book describes the fourth industrial revolution i e Health 4 0 which is based on virtualization and service aggregation It shows how sensors embedded systems and cyber physical systems are fundamentally changing the way industrial processes work their business models and how we consume while also affecting the health and care domains Chapters describe the technology behind the shift of point of care to point of need and away from hospitals and institutions how care will be delivered virtually outside hospitals that services will be tailored to individuals rather than being designed as statistical averages that data analytics will be used to help patients to manage their chronic conditions with help of smart devices and that pharmaceuticals will be interactive to help prevent adverse reactions The topics presented will have an impact on a variety of healthcare stakeholders in a continuously global and hyper connected world Presents explanations of emerging topics as they relate to e health such as Industry 4 0 Precision Medicine Mobile Health 5G Big Data and Cyber physical systems Provides overviews of technologies in addition to possible application scenarios and market conditions Features comprehensive demographic and statistic coverage of Health 4 0 presented in a graphical manner

Nanotechnology and Ethical Governance in the European Union and China Sally Dalton-Brown, 2015-06-03 This book addresses questions surrounding the feasibility of a global approach to ethical governance of science and technology The emergence and rapid spread of nanotechnology offers a test case for how the world might act when confronted with a technology that could transform the global economy and provide solutions to issues such as pollution while potentially creating new environmental and health risks The author compares ethical issues identified by stakeholders in China and the EU about the rapid introduction of this potentially transformative technology a fitting framework for an exploration of global agency The study explores the discourse ethics and participatory Technology Assessment pTA inspired by the work of J rgen Habermas to argue that different views can be universally recognized and agreed upon perhaps within an ideal global community of

communication The book offers a developed discourse model utilizing virtue ethics as well as the work of Taylor Beck Korsgaard and others on identity formation as a way forward in the context of global ethics The author seeks to develop new vocabularies of comparison to discover shared aspects of identity and to achieve hopefully an intercultural personhood that may lead to a global ethics The book offers a useful guide for researchers on methods for advancing societal understanding of science and technology The author addresses a broad audience from philosophers ethicists and scientists to the interested general reader For the layperson one chapter surveys nanoissues as depicted in fiction and another offers a view of how an ordinary citizen can act as a global agent of change in ethics

Advances In Geosciences (A 6-volume Set) - Volume 25: Planetary Science (Ps) Anil Bhardwaj,S A Haider,Paul Hartogh,Takashi Ito,2011-07-13 This invaluable volume set of Advances in Geosciences continues the excellent tradition of the Asia Oceania scientific community in providing the most up to date research results on a wide range of geosciences and environmental science The information is vital to the understanding of the effects of climate change extreme weathers on the most populated regions and fastest moving economies in the world Besides these volumes also highlight original papers from many prestigious research institutions which are conducting cutting edge studies in atmospheric physics hydrological science and water resource ocean science and coastal study planetary exploration and solar system science seismology tsunamis upper atmospheric physics and space science

Glial Plasticity in Depression João F. Oliveira,Catarina A. Gomes,Sandra H. Vaz,Nuno Sousa,Luisa Pinto,2016-10-24 Major depression is a highly prevalent disorder that poses a significant social burden in society nowadays The pathophysiology of this disease is still poorly understood but growing evidence suggests that impaired neuron and glial plasticity may be a key underlying mechanism for the precipitation of the disorder One of the most surprising findings in this field was the involvement of glial cells in the pathophysiology of major depression and in the action of antidepressants namely in mechanisms related with adult neurogenesis imbalances or dendritic arborization impairments In particular several works refer to alterations in the morphology and numbers of astrocytes microglia and oligodendrocytes in the context of depression in human patients or animal models of depression These observations were linked to functional evidences and suggested to underlie the pathophysiology of depression Among others these include impairments in the cross talk between glia and neurons changes in the level of neurotransmitter or immunoactive substances myelination status synapse formation maintenance or elimination In addition to the implication of glia in the pathophysiology of depression a number of studies is ascribing glia pathways to classically accepted antidepressant mechanisms Therefore it is noteworthy to elucidate the role of glia in the effect provided by antidepressant treatment in order to better understand secondary effects and elucidate alternative targets for treatment

Planetary Science (PS) Anil Bhardwaj,Kenji Satake,2011-07-13 This invaluable volume set of Advances in Geosciences continues the excellent tradition of the Asia Oceania scientific community in providing the most up to date research results on a wide range of geosciences and environmental science The information is vital to the

understanding of the effects of climate change extreme weathers on the most populated regions and fastest moving economies in the world Besides these volumes also highlight original papers from many prestigious research institutions which are conducting cutting edge studies in atmospheric physics hydrological science and water resource ocean science and coastal study planetary exploration and solar system science seismology tsunamis upper atmospheric physics and space science

How America Stacks Up Edward Alden, Rebecca Strauss, 2016-02-01 American leadership in the world is built on the foundation of its economic strength Yet the United States faces enormous economic competition abroad and threats to its economy at home In *How America Stacks Up* Economic Competitiveness and U S Policy Edward Alden Bernard L Schwartz senior fellow at the Council on Foreign Relations and director of the Renewing America initiative and Rebecca Strauss associate director of Renewing America focus on those areas of economic policy that are the most important for reinforcing America s competitive strengths Covering education transportation trade and investment corporate tax worker retraining regulation debt and deficits and innovation *How America Stacks Up* shows how in a highly competitive global economy these seemingly domestic issues are all crucial to U S success in the global economy The line between domestic economic policy and foreign economic policy is now almost invisible and getting these policies right matters for more than just U S living standards The United States ability to influence world events rests on a robust competitive economy But without further investment in education infrastructure and innovation Alden and Strauss show the United States runs the risk of endangering its greatest competitive advantage Through insightful analysis and engaging graphics *How America Stacks Up* outlines the challenges faced by the United States and prescribes solutions that will ensure a healthy competitive U S economy for years to come

The Umbilical Cord Blood Controversies in Medical Law Karen Devine, 2017-01-12 Since the therapeutic value of umbilical cord blood UCB stem cells was first recognised in the late 1980s there has been a proliferation of both public and private UCB banks worldwide However the ability to utilise such a potentially valuable resource has provoked a number of controversies In a distinctly accessible style this book unpacks the socio legal implications of the UCB collection process and constructs a detailed analysis of the law and ethics that surrounds UCB banking in the UK including ownership of the cells Its enquiry is located within the theoretical framework of altruism versus self interest and explores the notions of risk and choice associated with this distinctive blend of public private healthcare provision The book evaluates the impact of the Human Tissue Act 2004 and the European Union Tissues and Cells Directive 2004 23 EC on the UCB industry and provides a unique insight into the effect that the law may have on the NHS whose maternity staff and premises are used to collect UCB This book would be of interest primarily to a UK readership in addition to expectant families health professionals students academics practitioners and the UCB industry elsewhere in the world

AIIMS Annual Report All-India Institute of Medical Sciences, 2014

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Table of Contents Nov 2014 Plife Science

1. Understanding the eBook Nov 2014 Plife Science
 - The Rise of Digital Reading Nov 2014 Plife Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Nov 2014 Plife Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nov 2014 Plife Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nov 2014 Plife Science
 - Personalized Recommendations
 - Nov 2014 Plife Science User Reviews and Ratings
 - Nov 2014 Plife Science and Bestseller Lists
5. Accessing Nov 2014 Plife Science Free and Paid eBooks
 - Nov 2014 Plife Science Public Domain eBooks
 - Nov 2014 Plife Science eBook Subscription Services
 - Nov 2014 Plife Science Budget-Friendly Options
6. Navigating Nov 2014 Plife Science eBook Formats

- ePub, PDF, MOBI, and More
 - Nov 2014 Plife Science Compatibility with Devices
 - Nov 2014 Plife Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nov 2014 Plife Science
 - Highlighting and Note-Taking Nov 2014 Plife Science
 - Interactive Elements Nov 2014 Plife Science
 8. Staying Engaged with Nov 2014 Plife Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nov 2014 Plife Science
 9. Balancing eBooks and Physical Books Nov 2014 Plife Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nov 2014 Plife Science
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Nov 2014 Plife Science
 - Setting Reading Goals Nov 2014 Plife Science
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Nov 2014 Plife Science
 - Fact-Checking eBook Content of Nov 2014 Plife Science
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web r z m i n 3 8 r a 0 9 5 r z m a x 1 4 5 r a 0 7 5 converting between ra and rz is not a good engineering practice it is always recommended to measure according to the method in which surface roughness is indicated on the drawing as you can see in the below graphs the inaccuracy grows in higher r a r z values

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web mean roughness the mean roughness roughness average ra is the arithmetic average of the absolute values of the roughness profile ordinates ra is one of the most effective surface roughness measures commonly adopted in general engineering practice

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web nov 11 2021 surface finish conversion chart in this section there s a table for the surface finish conversion chart this table compares the different surface roughness scales for manufacturing processes meanwhile let s go through some of the abbreviations you ll find there ra roughness average rms root mean square cla center line

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web ra roughness average in micrometers or microinches rms root mean square in microinches cla center line average in microinches rt roughness total in microns n new iso grade scale numbers cut off length length required for sample

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