

LIFE SCIENCES - PAPER 1- QUICK FIXES

DIFFERENCES BETWEEN MITOSIS AND MEIOSIS

MEIOSIS:	MITOSIS:
<ul style="list-style-type: none">• Meiosis involves 2 cell divisions• Meiosis gives rise to sex cells• Cells produced are haploid• Differs according to gender• 2 phases• 4 daughter cells formed• Half the number of chromosomes to the parent cell• All cells formed are genetically different to each other and parent cell• Cells responsible for genetic variation in reproduction	<ul style="list-style-type: none">• Mitosis involves 1 cell division• Gives rise to somatic cells• Cells produced are diploid• Has no gender specification• One phase• 2 daughter cells formed• Same number of chromosomes as parent cell• Genetically identical to each other and parent cell• Cells responsible for growth and repair

DIFFERENCES BETWEEN MEIOSIS I AND MEIOSIS II

MEIOSIS 1	MEIOSIS 2
<ul style="list-style-type: none">• Crossing over occurs in prophase 1• Chromosomes arranged at the equator in homologous pairs in metaphase I• Homologous chromosomes pairs separate• Whole chromosomes are pulled to opposite poles in anaphase I• 2 diploid daughter cells produced	<ul style="list-style-type: none">• No crossing over occurs• Chromosomes arranged singly at the equator in metaphase II• Sister chromatids separate• Chromatids are pulled to opposite poles in anaphase II• 4 haploid daughter cells produced

THE IMPORTANCE OF MEIOSIS

- Production of haploid gametes
- The halving effect of meiosis overcomes the doubling effect of fertilisation, thus maintaining a constant chromosome number from one generation to the next
- Mechanism to introduce genetic variation through:
 - Crossing over
 - The random arrangement of chromosomes at the equator

ABNORMAL MEIOSIS

Non-disjunction and its consequences

- Non-disjunction of chromosome pair 21 during Anaphase I in humans to form abnormal gametes with an extra copy of chromosome 21
- The fusion between an abnormal gamete (24 chromosomes) and a normal gamete (23 chromosomes) may lead to Down syndrome

September Life Sciences Paper 1 Gauteng

**Séverine Awenengo Dalberto, Richard
Banégas**



September Life Sciences Paper 1 Gauteng:

Artificial Intelligence and Big Data Frans L. Leeuw, Michael Bamberger, 2025-03-12 This timely book explores how Artificial Intelligence AI and Big Data contribute to the evaluation of the rule of law covering legal arrangements empirical legal research law and technology and international law and social and economic development programs in both industrialized and developing countries Issues of ethics and bias in the use of AI are also addressed and indicators of the growth of knowledge in the field are discussed *Towards applying a green infrastructure approach in the Gauteng City-Region* Christina Culwick, Samkelisiwe Khanyile, Kerry Bobbins, Stuart Dunsmore, Anne Fitchett, Lerato Monama, Raishan Naidu, Gillian Sykes, Jennifer van den Bussche, Marco Vieira, 2019-12-11 In the context of heightened climate variability thinking about ways to redesign our urban areas with more sustainable infrastructure solutions is becoming more and more important Green infrastructure GI is emerging as an alternative approach to traditional grey infrastructure in urban planning and development Its emergence can be understood in terms of the growing demand for infrastructure and services increased concerns over natural resource constraints and climate change and the negative impacts associated with traditional approaches to designing and building cities It has been proposed that GI can provide the same services as traditional infrastructure at a similar capital cost while also providing a range of additional benefits However despite the increasing examples of successful urban GI applications traditional infrastructure continues to dominate due to the lack of systematic evidence to support GI implementation As a result there has been an increase in calls from policy and decision makers for a greater evidence base on the benefits of GI as well as for practical guidelines on its implementation Towards applying a green infrastructure approach in the Gauteng City Region is the GCRO's third report in its ongoing research into Green assets and infrastructure The first two reports in this project series were more theoretically grounded and policy oriented whereas this third report is more practical in nature The first report explored the basic principles around GI assessed the extent of ecological features in Gauteng and the way governments in the province think about planning and maintenance of green assets The second report responded to some of the challenges identified in the first report and in particular the importance of government officials and practitioners in exploring how international green infrastructure plans could be applied in the Gauteng context This third report builds on the findings of the aforementioned reports and the project's CityLab series which highlighted the need to build an evidence base as critical for garnering support for and as well as enhancing investment in the GI approach Unlike the more theoretically grounded earlier reports this report comprises four technical sections and practical reflections on how a GI approach could be incorporated into urban planning in the GCR and in other similar urban contexts *Identification and Citizenship in Africa* Séverine Awenengo Dalberto, Richard Banégas, 2021-05-10 In the context of a global biometric turn this book investigates processes of legal identification in Africa from below asking what this means for the relationship between citizens and the state Almost half of the population of the

African continent is thought to lack a legal identity and many states see biometric technology as a reliable and efficient solution to the problem. However, this book shows that biometrics far from securing identities and avoiding fraud or political distrust can even participate in reinforcing exclusion and polarizing debates on citizenship and national belonging. It highlights the social and political embedding of legal identities and the resilience of the documentary state. Drawing on empirical research conducted across 14 countries, the book documents the processes, practices and meanings of legal identification in Africa from the 1950s right up to the biometric boom. Beyond the classic opposition between surveillance and recognition, it demonstrates how analysing the social uses of IDs and tools of identification can give a fresh account of the state at work, the practices of citizenship and the role of bureaucracy in the writing of the self in African societies. This book will be of an important reference for students and scholars of African studies, politics, human security and anthropology and the sociology of the state.

Proceedings of the Forty-ninth Pugwash Conference on Science and World Affairs, Rustenburg, South Africa, 7-13 September 1999 Joseph Rotblat, 2001. In September 1999, scientists and scholars from around the world, concerned with reducing the danger of armed conflict and seeking cooperative solutions to global problems, met under the auspices of the Pugwash conferences, the Nobel Prize-winning organization. The proceedings deal with a broad range of issues, including a nuclear weapon-free world, emerging security threats, development, environment and international governance.

Community Futures, Legal Architecture Marcia Langton, Judy Longbottom, 2012. The unifying experiences of the indigenous and local people are the social and economic disadvantage experienced by indigenous peoples and local communities surrounded by wealth-producing projects. Chapters on Australian Aboriginals, chapters on Timor-Leste, Aust NZ content. Langton is at the University of Melbourne.

International Approaches to Rape Nicole Westmarland, Geetanjali Gangoli, 2011-04-06. Available Open Access under CC BY-NC licence. Following on from *International Approaches to Prostitution*, The Policy Press 2006, this book provides an overview of rape law and policy in 10 countries, including England, Australia, Canada, India and China. By introducing readers to national perspectives of issues relating to rape, the book presents a comparative approach that highlights the similarities and differences between countries, contexts, laws, key issues, policies and interventions. It is recommended for academics, students, practitioners and policy makers.

Politics in South Africa Tom Lodge, 2003. This well-informed and crisply written introduction will appeal to both students of contemporary politics and general readers interested in the new democracy. Book jacket.

Scholarship of education and human rights in diversity Erika M. Serfontein, Charl C. Wolhuter, Shantha Naidoo, 2023-03-01. The objective of this book is to highlight the need and value of imbuing the dynamic intersections between education, human rights and diversity with perspectives from the Global South. The chapters approach key intellectual conundrums of the day from a Global South perspective to reflect a credible scholarly footprint in Africa and in the SADC region. This is deemed timely considering that the field is deeply embedded in western Eurocentric and overall Global North dominance. This book will provide a Southern perspective on

education and human rights in diversity by unpacking each of the following key areas in the intersection between education human rights and diversity from a Southern perspective comparative international perspectives citizenship education human rights literacies human rights education pedagogy learner discipline in schools aggression and bullying in schools addressing human trafficking by means of human rights education social justice and the decolonisation of human rights and human rights education

The Institutionalisation of Disaster Risk Reduction Gideon van Riet, 2016-12-01 The past three decades have seen a global shift in disaster management from an event driven response to a could be risk management approach Disaster risk reduction DRR has become entrenched as a dominant paradigm within the field of disaster management More than a decade after adopting DRR legislation in South Africa there remains a dearth of evidence that this has translated into substantive action This book examines the institutionalisation of DRR in South Africa conceived of as a political economy of knowledge production Using a critical theory approach the book does not consider why DRR is failing but instead asks why DRR As such it explores possibilities beyond DRR s narrow optic and offers new insights into disaster management through the lens of South Africa This is valuable reading for graduate students and academics working in disaster studies geography public policy and development post development studies as well as policy makers

Impact of Meat Consumption on Health and Environmental Sustainability Raphaely, Talia, Marinova, Dora, 2015-10-19 This reference book is an IGI Global Core Reference for 2019 as it one of the best selling within the Environmental Agricultural and Physical Sciences subject area since 2015 Winning the Best in the World and Best Sustainable Food Book from the Gourmand Awards this title focuses on high quality research in developing a food culture that mitigates human and environmental damage Featuring research on trending topics such as limiting meat consumption trade and the meat industry ethics of meat production and consumption and more this publication contains research that has been contributed by industry leading experts across Australia U S UK and more making it a critical resource for policymakers academicians researchers advanced level students technology developers and government officials *Impact of Meat Consumption on Health and Environmental Sustainability* addresses the difficulties challenges and opportunities in reducing excessive meat consumption in order to mitigate human and environmental damage Policymakers academicians researchers advanced level students technology developers and government officials will find this text useful in furthering their research exposure to pertinent topics such as dietary recommendations for limiting meat consumption trade and the meat industry ethics of meat production and consumption and the environmental impacts of meat consumption

Precarious Liberation Franco Barchiesi, 2011-06-01 Winner of the 2012 CLR James Award presented by the Working Class Studies Association Millions of black South African workers struggled against apartheid to redeem employment and production from a history of abuse insecurity and racial despotism Almost two decades later however the prospects of a dignified life of wage earning work remain unattainable for most South Africans Through extensive archival and ethnographic research Franco Barchiesi documents and interrogates this important

dilemma in the country's democratic transition economic participation has gained centrality in the government's definition of virtuous citizenship and yet for most workers employment remains an elusive and insecure experience In a context of market liberalization and persistent social and racial inequalities as jobs in South Africa become increasingly flexible fragmented and unprotected they depart from the promise of work with dignity and citizenship rights that once inspired opposition to apartheid Barchiesi traces how the employment crisis and the responses of workers to it challenge the state's normative imagination of work and raise decisive questions for the social foundations and prospects of South Africa's democratic experiment

Who's who of Southern Africa, 2006 Vols for 1967-70 include as a section Who's who of Rhodesia Mauritius Central and East Africa

Active Citizen Participation in E-Government: A Global Perspective Manoharan, Aroon, Holzer, Marc, 2012-02-29 This book focuses on the issues and challenges involving adoption and implementation of online civic engagement initiatives globally and will serve as a valuable guide to governments in their efforts to enable active citizen participation Provided by publisher

The Infrastructures of Security Martin Murray, 2022-08-15 The shift from dependence upon human decision making in security services to Artificial Intelligence

Senses of Culture Sarah Nuttall, Cheryl-Ann Michael, 2000 Everyday life in South Africa has been dominated by the politics of racial identities while such identities form and re-form around a range of cultural activities and practices This book traces the important dimensions of cultural activity in late twentieth century South Africa offering a multidisciplinary assessment between culture and politics It also explores the ways in which the place of culture is being rethought since South Africa's transition to democracy

E-Commerce Adoption and Small Business in the Global Marketplace: Tools for Optimization Thomas, Brychan, Simmons, Geoff, 2010-01-31 This book focuses on isolating what determines the adoption of e-commerce applications that will optimize potential opportunities presented to small businesses through adoption Provided by publisher

Towards more effective collaboration by higher education institutions for greater regional development in the Gauteng City-Region Robert Bergman, 2014-11-19 Higher education institutions HEIs in the Gauteng City Region GCR and elsewhere are increasingly being called upon to do more than their traditional roles of teaching and research They are now expected to collaborate and engage with other stakeholders with a view to contributing directly and indirectly to social and economic development in their localities Such an orientation includes having HEIs actively fostering public private partnerships and other initiatives that enhance equitable regional development The adoption of such a focus has implications for all aspects of these institutions activities as well as for the policy and regulatory framework in which they operate This Occasional Paper reflects critically on the role of HEIs in regional development It surveys current debates on the matter and draws out some of the implications on how we ought to think further about the current state of government industry-academia interaction and collaboration for development in the GCR It is motivated by an awareness of the increasing importance of higher education in the regional development discourse alongside a body of international theory and practice on the contribution of HEIs to

regional development A cornerstone of this body of literature is the so called triple helix framework within which government industry and academia work intimately intensely and collaboratively towards a common vision of regional development Within this framework HEIs are considered to be a public good that must play a large meaningful and relevant role in the development and improvement of the cities and regions where they are located 1 2 They do not and cannot stand completely outside the realities of their geographic social cultural and political environment The intended audience for this report extends beyond academics and HEI administrators to include government officials business and labour leaders civil society and citizens because a discussion on stimulating and improving the GCR must be much more than an academic exercise The collaboration that is essential to regional development requires stakeholders to be familiar with a wide spectrum of issues of importance to individual constituencies Each constituency must add value and insight to the discussion by drawing on their specific knowledge experience and self interests Establishing this common ground is fundamental to initiating meaningful debate about what the GCR can and should be and how regional HEIs can work more collaboratively creatively and effectively to improve and advance the region

Responsible Reproductive Choice in the 21st Century Malcolm de Roubaix, 2023-01-05 This book systematically traces the development significance and implications of female reproductive choice Paramount is the right to safe termination of pregnancy TOP In the USA these rights are under threat after the reversal of Roe v Wade 1973 confirming the eternally contested nature of the pro life pro choice standoff The approach is unique and from all angles historical social emotional and legal South African experience is evaluated against a global backdrop Arguing from an ethics of responsibility the book presents a justified balanced rational and moderate position on the moral acceptability of TOP It proposes that the morality TOP be evaluated by balancing inherent foetal moral significance against contingent potentiality context and circumstance that may determine foetal development TOP is a choice a woman faces with each pregnancy It always has moral implications exclusive to the life of the woman So too do continued pregnancy and parenthood but these are of greater magnitude and duration

South Africa News Update ,1997 Consists of reproductions of articles from South African newspapers

Investing in Health Research and Development Ad Hoc Committee on Health Research Relating to Future Intervention Options, 1996 This report deals with policy for health R the continually changing nature of several major microbial threats the emergence of major epidemics of noncommunicable disease and injury and inefficiency and inequity in health systems

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