



## **Life Sciences (CAPS)**

### **Grade 12**

### **Excellence Kit**

### **Paper 1**

	<b>Topic</b>	<b>Percentage</b>	<b>Number of Marks</b>
1.	Meiosis	7	11
2.	Reproduction in vertebrates	4	6
3.	Human reproduction	21	31
4.	Responding to the environment (humans)	27	40
5.	Human endocrine system	10	15
6.	Homeostasis in humans	7	11
7.	Responding to the environment (plants)	7	11
8.	Human impact	17	25

# Gauteng Life Science Paper One 2014

**Reza Hosseini**



## **Gauteng Life Science Paper One 2014:**

**Proceedings of the International Conference on Education Research** Reza Hosseini, 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 Social Memory as a Force for Social and Economic Transformation Muxe Nkondo, 2023-02-01 This volume of essays is a reflection on social memory as a force for social and economic transformation Written by scholars and organic intellectuals it focuses on the uses of social memory in particular the conflict between the legacies of colonialism and the movement for fundamental change The content addresses both experts and ordinary citizens alike with a view to advancing discourse on where we are right now and how we move on from here to achieve meaningful transformation As scholars and public representatives with a deep understanding of the social economic and political dynamics of modern history of South Africa the contributors offer their unique perspectives and

reflections on history politics economics culture education ethics and the arts as well as the links that bind these aspects into an ecology of ideas and attitudes      Transdisciplinary Engineering: A Paradigm Shift C.-H. Chen,A.C. Trappey,M.

Peruzzini,2017-07-20 Concurrent Engineering is based on the concept that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP Its main goal is to increase the efficiency and effectiveness of the PCP and reduce errors in the later stages and to incorporate considerations for the full lifecycle through life operations and environmental issues of the product It has become the substantive basic methodology in many industries and the initial basic concepts have matured and become the foundation of many new ideas methodologies initiatives approaches and tools This book presents the proceedings of the 24th ISPE Inc International Conference on Transdisciplinary formerly Concurrent Engineering TE 2017 held in Singapore in July 2017 The 120 peer reviewed papers in the book are divided into 16 sections air transport and traffic operations and management risk aware supply chain intelligence product innovation and marketing management human factors in design human engineering design methods and tools decision supporting tools and methods concurrent engineering knowledge based engineering collaborative engineering engineering for sustainability service design digital manufacturing design automation artificial intelligence and data analytics smart systems and the Internet of Things The book provides a comprehensive overview of recent advances in transdisciplinary concurrent engineering research and applications and will be of interest to researchers design practitioners and educators working in the field      *Understanding Education for the Visually Impaired* Ronél Ferreira,Maximus M.

Sefotho,2020-12-31 The contribution that this book makes to scholarship is regarded as ground breaking as it is based on recent research conducted with teachers on the ground level as well as on research and experiences of practitioners gained over many years In this volume Understanding education for the visually impaired the focus falls on understanding visual impairment within the South African context more specifically on what the education of these learners entails In addition to the contribution to existing literature in the fields of inclusive education and visual impairment the publication has practical application value for teachers and practitioners who work with and support such learners      *The Urban Ecologies of Divided Cities* Amira Osman,John Nagle,Sabyasachi Tripathi,2023-06-12 The book discusses how division affect the fabric of cities and people s sense of identity and agency and are reflected in physical features architecture and urban planning The question of divided cities represents a complex and multistranded urban Ecology at once both social and spatial it cannot be limited to a single science or discipline such as social or spatial fields This suggests integrated and cross disciplinary understandings as well as integrated or parallel approaches and solutions Urban ecologies of division manifest in multiple forms One of their most palpable expressions is conflict with parallels around the world and often with correlations in the spatial fabric Violence in such contexts is often a surface expression of deeper socio economic or ideological differences Whether as a result of intervention by authority or by dissent between groups a divided city inevitably becomes a place of

conflict in various forms and intensity eroding the joy of living and sense of collective belonging to the detriment of all In effect it erodes the collective advantage of being part of a more unified society A city exists in collections of social structures which mutually form a society A divided city implies divided social structures and in consequence a divided society The papers compiled in this book present many case studies of divided cities discussing the different causes of divisions and their effects on societies Some of the causes can be linked to conflicts wars colonialism or legislative political systems In response to the serious challenges resulting from these divisions the book aims to provide opportunities for new approaches and possibilities for new interventions and solutions making it significant to urban planners architects and policymakers

Social, Educational, and Cultural Perspectives of Disabilities in the Global South Ndlovu, Sibonokuhle, Nyoni, Phefumula, 2021-01-15 Technology and research for disabilities and disability support are largely produced by the Global North even though it is utilized globally including in the Global South For this reason the encouragement of greater research efforts and technological creation are essential for advanced disability support in the Global South Social Educational and Cultural Perspectives of Disabilities in the Global South is an essential scholarly publication that examines scholarship and academics with disabilities with an emphasis on the disruption of stereotypes as well as lived experience Featuring a wide range of topics such as feminist theory student motivation and artificial intelligence this book is ideal for academicians academic professionals researchers policymakers and students Public Secrets and Private Sufferings in the South African AIDS Epidemic Jonathan Stadler, 2021-04-26 This book tells the story of the HIV epidemic in South Africa and asks why after more than three decades it has not normalised Despite considerable efforts to prevent infection and ambitious targets set to end the epidemic by 2030 HIV infections are increasing among young women and treatment uptake and adherence have been uneven Focusing on the years preceding and following treatment access this book addresses why an end to AIDS may be misplaced optimism By examining public discourses and private narratives about infection illness and death this work reveals the contradictions between the lived experiences of AIDS suffering on the one hand and biomedical certainties on the other Based on long term ethnographic research in rural villages of the South African lowveld and within HIV prevention interventions in South Africa more generally this book offers an intimate perspective on the social and cultural responses to the epidemic **Getting Skills Right: South Africa** OECD, 2017-07-10 This report identifies effective strategies to tackle skills imbalances in South Africa **5th International Symposium on High-Temperature Metallurgical Processing** Tao Jiang, Jiann-Yang Hwang, Mark E. Schlesinger, Onuralp Yucel, Rafael Padilla, Phillip J. Mackey, Guifeng Zhou, 2014-01-10 The analysis development and or operation of high temperature processes that involve the production of ferrous and nonferrous metals alloys and refractory and ceramic materials are covered in the book The innovative methods for achieving impurity segregation and removal by product recovery waste minimization and or energy efficiency are also involved Eight themes are presented in the book 1 High Efficiency New Metallurgical Technology 2 Fundamental Research of Metallurgical

Process 3 Alloy and Materials Preparation 4 Roasting Reduction and Smelting 5 Sintering of Ores and Powder 6 Simulation and Modeling 7 Treatment of Solid Slag Wastes and Complex Ores 8 Microwave Heating Energy and Environment

**International Business**, 2024-01-31 International Business New Insights on Changing Scenarios is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in business management and economics The book presents a review of the latest research efforts by international authors in social science and opens new possible research paths for further novel developments Chapters address such topics as business intelligence circular systems corporate governance work related safety issues and much more

**Globalized urban precarity in Berlin and Abidjan** Hannah Schilling, 2023-03-07 Digital technologies promise efficiency and comfort but the smoothness of platform services relies on the hidden social labour of those who keep the gig economy running This book presents a comparative ethnography of young men making a living through digital technologies selling mobile airtime in Abidjan C te d Ivoire and app based delivery riders in Berlin Germany These case studies explore the significance of symbolic capital in urban youth s social existence and organisation of livelihood in the digital economy and the technological mechanisms producing a new form of urban precarity Globalized urban precarity in Berlin and Abidjan puts forward an original comparative approach to develop a global urban sociology for the digital era It provides an innovative analytical toolbox that decentres discussions of precarity from the standard of a normal employment contract With its focus on symbolic capital the ethnography shows the consequences of the proliferating gig economy for status struggles among urban youth and carefully embeds the densification of software and services into the socio material relations on which these new urban infrastructures are built

*School Leadership for Democratic Education in South Africa* Tsediso Michael Makoelle, Thabo Makhalemele., Pierre du Plessis, 2021-07-29 School Leadership for Democratic Education in South Africa explores the democratization and modernization of education in South Africa analyzing the state of school leadership in South African schools from the time of the new democratic education dispensation in 1994 to the present day The book maps out what the future of education in South Africa could look like and explores the most conducive educational environments for change in South African schools It adopts a critical approach to analyzing leadership and management in the context of school governance school effectiveness teacher development multiculturalism and equity in education Contributions explore the democratization and modernization of education in South Africa through examining different perspectives achievements and challenges and also consider issues around access to technology language policy and the curriculum along with new literature on selected aspects of leadership This book will be of great interest for researchers scholars and students in the fields of educational leadership sociology of education and teacher education

*The Bloomsbury Handbook of Gender and Educational Leadership and Management* Victoria Showunmi, Pontso Moorosi, Charol Shakeshaft, Izhar Oplatka, 2022-02-24 Drawing together diverse research perspectives and theoretical underpinnings this handbook explores gender as a social category and examines cultural and

social differences Bringing together diverse perspectives from around the world including from Africa Europe the Middle East the UK and the USA the volume sets out the gender and educational leadership and management field providing a snapshot of the field as it stands signalling its development and directions for future development It offers focused reviews of empirical research on particular aspects of the field and presents new insights from research findings and methodological approaches

**On Human Nature** Michel Tibayrenc, Francisco J. Ayala, 2016-09-12 On Human Nature Biology Psychology Ethics Politics and Religion covers the present state of knowledge on human diversity and its adaptive significance through a broad and eclectic selection of representative chapters This transdisciplinary work brings together specialists from various fields who rarely interact including geneticists evolutionists physicians ethologists psychoanalysts anthropologists sociologists theologians historians linguists and philosophers Genomic diversity is covered in several chapters dealing with biology including the differences in men and apes and the genetic diversity of mankind Top specialists known for their open mind and broad knowledge have been carefully selected to cover each topic The book is therefore at the crossroads between biology and human sciences going beyond classical science in the Popperian sense The book is accessible not only to specialists but also to students professors and the educated public Glossaries of specialized terms and general public references help nonspecialists understand complex notions with contributions avoiding technical jargon Provides greater understanding of diversity and population structure and history with crucial foundational knowledge needed to conduct research in a variety of fields such as genetics and disease Includes three robust sections on biological psychological and ethical aspects with cross fertilization and reciprocal references between the three sections Contains contributions by leading experts in their respective fields working under the guidance of internationally recognized and highly respected editors

**Energy Poverty and Vulnerability** Neil Simcock, Harriet Thomson, Saska Petrova, Stefan Bouzarovski, 2017-09-07 Energy Poverty and Vulnerability provides novel and critical perspectives on the drivers and consequences of energy related injustices in the home Drawing together original research conducted by leading experts the book offers fresh and innovative insights into the ways in which hitherto unexplored factors such as cultural norms environmental conditions and household needs combine to shape vulnerability to energy poverty Chapters 1 and 15 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

**Between Time and Space** Sulevi Riukulehto, 2015-05-13 In new regional history national states are not seen to play a special role Regions are understood as evolutionary processes in which time and space history and geography are connected in research questions To illustrate the entanglement of time and space in various forms and ages this volume explores regional history from around the globe The editor's review of the various works written under the heading of regional history serves as an introduction to this theme This volume shows how historical events and changes have influenced the reproduction of regions in Czechia it will also

highlight how regional identities were manifested in a cultural form in romantic operas of post Napoleonic Europe The historically rich West Wits Line gold mining region in the West Rand of South Africa is also examined within a regional history framework with the broad theme of ecohealth and well being Through case studies the volume also explores the history of governance and planning in New Zealand's largest city region Auckland as well as the recent economic history of the State of Mato Grosso in Brazil Finally it also brings the idea of regional history to the most personal level of historical consciousness by examining the experiential shaping of home in the broader meaning of Heimat as a question of belonging somewhere both in time and in space

*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

*Community-Based Tourism in the Developing World* Peter Wiltshier, Alan Clarke, 2019-10-16 This book analyses community based approaches to



developing and regenerating tourism destinations in the developing world addressing this central issue in sustainable tourism practices It reviews a variety of systems useful for analysing and understanding management issues to offer new insight into the skills and resources that are needed for implementation ongoing monitoring and review of community based tourism Adopting a multidisciplinary approach this book explores alternatives to the dominant interpretation which argues against tourism as a benefit for community development International case studies throughout the book illustrate and vouch for tourism as a transformative force while clarifying the need to manage expectations in sustainable tourism for community development rejuvenation and regeneration Emphasis is placed on accruing relevant decision support material and creating services products and management approaches that will endure and adapt as change necessitates This will be of great interest to upper level students researchers and academics in the fields of tourism impacts sustainability ethics and development as well as the broader field of geography

One Virus, Two Countries Steven Friedman, 2021-11-01 Has South Africa done well at limiting illness and deaths during the COVID 19 pandemic Academic and political commentator Steven Friedman thinks not While the country's mainstream media believes it has in his view the evidence tells another story South Africa has experienced by far the most cases and deaths in Africa at one point as many as the rest of the continent combined One Virus Two Countries What Covid 19 tells us about South Africa offers a searing analysis of government and expert scientists responses to the pandemic Friedman argues that South Africa is two societies in one a First World which resembles Western Europe and North America and a Third World which looks much like the rest of Africa or South Asia The South African state the media and the scientific community have largely tried to deal with the virus through a First World lens in which much of the country was either invisible or a problem not a partner Friedman argues this approach prevented the country from responding in a way which would have protected most citizens This is why case numbers and deaths are so high South Africa has done worse than the rest of Africa not despite the fact that it has a more developed health system but because it does One Virus Two Countries is a controversial book that will rouse much needed debate about South Africa's health and economic system in a context of serious inequality

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