



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**SENIOR CERTIFICATE/
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GRADE 12

AGRICULTURAL SCIENCES P1

NOVEMBER 2020

MARKING GUIDELINES

MARKS: 150

These marking guidelines consist of 11 pages.

2014 November Agricultural Science Paper 1 Memo

Philippe Legrain



2014 November Agricultural Science Paper 1 Memo:

Global Agriculture and the American Farmer Kimberly Ann Elliott, 2017-06-27 The United States is one of the world's largest producers and exporters of a range of agricultural commodities and the largest provider of foreign assistance so U.S. policies have big effects on global food security and other global public goods linked to agriculture. On the positive side of the ledger President Obama created the Feed the Future aid initiative to promote agricultural development in poorer countries as a tool to achieve the global goals of ending hunger and extreme poverty which are mostly rural. But that generosity is undercut by U.S. support for farmers that distorts global markets and ignores negative spillovers for the rest of the world. In this book Elliott focuses on three policy areas that are particularly damaging for developing countries: traditional agricultural subsidy and trade policies that support the incomes of American farmers at the expense of farmers elsewhere; the biofuels mandate which in its current form increases market volatility while doing little if anything to mitigate climate change; and weak regulation of antibiotic use in livestock which contributes to the global spread of drug-resistant super bugs. While noting that broad reforms are needed to fix these problems, Elliott also identifies practical steps that U.S. policymakers could take in the relatively short run to improve farm policies for American taxpayers and consumers as well as for the poor and vulnerable in developing countries.

Them and Us Philippe Legrain, 2020-10-15 Winner of the Diversity Inclusion and Equality Award at the Business Book Awards 2021. Underpinned by scholarship entertaining Legrain's book fizzles with practical ideas. The Economist: The beauty of diversity is that innovation often comes about by serendipity. As Scott Page observed one day in 1904 at the World Fair in St. Louis, the ice cream vendor ran out of cups. Ernest Hami, a Syrian waffle vendor in the booth next door, rolled up some waffles to make cones, and the rest is history. Filled with data, anecdotes, and optimism, *Them and Us* is an endorsement of cultural differences at a time of acute national introspection. By every measure, from productivity to new perspectives, immigrants bring something beneficial to society. If patriotism means wanting the best for your country, we should be welcoming immigrants with open arms.

Food in America Andrew F. Smith, 2017-02-16 This three-volume work examines all facets of the modern U.S. food system, including the nation's most important food and agriculture laws, the political forces that shape modern food policy, and the food production trends that are directly impacting the lives of every American family. Americans are constantly besieged by conflicting messages about food, the environment, and health, and nutrition. Are foods with genetically modified ingredients safe? Should we choose locally grown food? Is organic food better than conventional food? Are concentrated animal feed operations destroying the environment? Should food corporations target young children with their advertising and promotional campaigns? This comprehensive three-volume set addresses all of these questions and many more, probing the problems created by the industrial food system, examining conflicting opinions on these complex food controversies, and highlighting the importance of food in our lives and the decisions we make each time we eat. The coverage of each of the many controversial food issues in the set offers perspectives

from different sides to encourage readers to examine various viewpoints and make up their own minds The first volume Food and the Environment addresses timely issues such as climate change food waste pesticides and sustainable foods Volume two entitled Food and Health and Nutrition addresses subjects like antibiotics food labeling and the effects of salt and sugar on our health The third volume Food and the Economy tackles topics such as food advertising and marketing food corporations genetically modified foods globalization and megagrocery chains Each volume contains several dozen primary documents that include firsthand accounts written by promoters and advertisers journalists politicians and government officials and supporters and critics of various views related to food and beverages representing speeches advertisements articles books portions of major laws and government documents to name a few These documents provide readers additional resources from which to form informed opinions on food issues

Handbook on Cohesion Policy in the EU Simona Piattoni, Laura Polverari, 2016-08-26 This Handbook covers all major aspects of EU Cohesion policy one of the most significant areas of intervention of the European Union Over five parts It discusses this policy's history and governing principles the theoretical approaches from which it can be assessed the inter institutional and multi level dynamics that it tends to elicit its practical implementation and impact on EU member states its interactions with other EU policies and strategies and the cognitive maps and narratives with which it can be associated An absolute must for all students of the EU

Handbook on the Economics and Management of Sustainable Oceans Paulo A.L.D. Nunes, Lisa Emelia Svensson, Anil Markandya, 2017-02-24 The trans disciplinary thematic areas of oceans management and policy require stocktaking of the state of knowledge on ecosystem services being derived from coastal and marine areas Recently adopted Sustainable Development Goals SDGs especially Goals 14 and 15 explicitly focus on this This Handbook brings together a carefully chosen set of world class contributions from ecology economics and other development science and attempts to provide policy relevant scientific information on ecosystem services from marine and coastal ecosystems nuances of economic valuation relevant legal and sociological response policies for effective management of marine areas for enhanced human well being The contributors focus on the possible nexus of science society and science policy with the objective of informing on decision makers of the governmental agencies business and industry and civil society in general with respect to sustainable management of Oceans

Rebuilding resilient and sustainable agriculture in Somalia (Full report) Food and Agriculture Organization of the United Nations, 2018-11-02 This report documents the pressures on Somalia's livestock and crop subsectors over the years but notes that there is a cause for optimism thanks to the country's resilience and resources These include a variety of agroecological zones and vast tracts of arable land and areas suitable for livestock production which in turn can support markets export trade and overall growth

Shared Governance for Sustainable Working Landscapes Timothy M. Gieseke, 2016-08-05 Sustaining our agricultural landscapes is no longer just a technical scientific or even political problem but it has evolved into a socially complex so called wicked problem of conflicting social governance and economics This

creates an extreme economic obstacle where the value of ecosystem services remains low and diffuse and the transactions costs remain high and multiple Using Uber like business platform technology and a shared governance model a symbiotic demand for environmental benefits is created Enabling multi sector transactions for environmental benefits this platform innovation would remedy the tragedy of the commons the economic nemesis to achieving landscape sustainability In a nutshell to sustain our agricultural landscapes a transdisciplinary approach supported by a shared governance model housed within a multi sided platform is needed This book introduces an assessment framework identifying governance actors styles and ratios for socio ecological systems The assessment uses a new governance compass to identify the types of actors completing which tasks and identifies the styles of governance used to complete the tasks It is aimed to anyone involved in sustainability science agricultural policy planning or integrated landscape design

From Empire's Servant to Global Citizen Michael Belgrave, 2016-12-01 The vision of two young scientists Massey University was established in 1928 to bring science to New Zealand's role as Britain's farm Massey has since become New Zealand's national and a global university with almost 140 000 alumni spread across 140 different nations This candid history looks at the university as it weathered war funding crises risk taking expansion and conflict with the government's plans for New Zealand's tertiary sector Written by distinguished historian Professor Michael Belgrave this is a lively look at how an agricultural college grew up to become a leading intellectual centre of excellence

Geotechnical and Exploration Drilling in the Polar Regions Pavel G. Talalay, 2023-01-01 This book provides a comprehensive review of drilling technologies in the polar regions from the portable drilling equipment for shallow sampling and coring to heavy drilling equipment for deep onshore and offshore drilling Particular attention is given to safe drilling methods in permafrost In recent years interest in drilling in the polar regions has increased under the pressure of the geopolitical rush and the undiscovered resource potential In addition borehole monitoring of permafrost thermal states is urgently needed to obtain evidence of climate change The book focuses on the latest drilling technologies but also discusses the historical development of sampling and drilling tools and devices over the last 60-70 years providing valuable insights into a way forward and future possibilities

The Right Tools for the Job Adele E. Clarke, Joan H. Fujimura, 2014-07-14 This volume examines scientific practice through studies of research tools in an array of twentieth century life sciences The contributors draw upon and extend the multidisciplinary perspectives in current science studies to understand the processes through which scientific researchers constructed the right and in some cases the wrong tools for the job The articles portray the crafting or accessing of specific materials techniques instruments models funds and work arrangements involved in doing scientific work They demonstrate the historical and local contingencies of scientific problem construction and solving by highlighting the articulation between the tools and jobs Indeed the very rightness of the tools is contingently constructed maintained lost and refashioned The cases examined include evolutionary biology laboratory systems James R Griesemer the plasmid prep procedure in molecular biology Kathleen Jordan and Michael

Lynch models in the human ecology of African pastoralists Peter Taylor the micromanometer in metabolic studies Frederic L Holmes genetics research and the role played by Planaria Gregg Mitman and Anne Fausto Sterling and by corn Barbara A Kimmelman quantitative data in field biology Yrj Haila taxidermy in natural history Susan Leigh Star technical standardization in bacteriology Patricia Peck Gossell and the discipline of immunology as the tool for stabilizing conceptual definitions in the field Peter Keating Alberto Cambrosio and Michael Mackenzie Originally published in 1992 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

A Political Economy of the Middle East Melani Cammett, Ishac Diwan, Alan Richards, John Waterbury, 2015-02-24 A Political Economy of the Middle East is the most comprehensive analysis of the political economy of development in the contemporary Middle East over the past several decades examining the interaction of economic development processes state systems state policies and social actors in the Middle East The fourth edition with new authors Melani Cammett and Ishac Diwan has been thoroughly revised with two new introductory chapters that provide an updated framework with which to understand and study the many changes in demography education labor markets urbanization water and agriculture and international labor migration in the recent years The new edition also includes a new chapter that charts the political economy of the Gulf states and in particular the phenomenal growth of oil economies a new chapter on the growth of the private sector and its effects in the region a new chapter on the rise of crony capitalism and increased coverage of the changes in civil society and social movements in the region including an exploration of the causes dynamics consequences and aftermath of the Arab uprisings

Tectonic Evolution, Collision, and Seismicity of Southwest Asia Rasoul Sorkhabi, 2017-12-21 Southwest Asia is one of the most remarkable regions on Earth in terms of active faulting and folding large magnitude earthquakes volcanic landscapes petroliferous foreland basins historical civilizations as well as geologic outcrops that display the protracted and complex 540 m y stratigraphic record of Earth's Phanerozoic Era Emerged from the birth and demise of the Paleo Tethys and Neo Tethys oceans southwest Asia is currently the locus of ongoing tectonic collision between the Eurasia Arabia continental plates The region is characterized by the high plateaus of Iran and Anatolia fringed by the lofty ranges of Zagros Alborz Caucasus Taurus and Pontic mountains the region also includes the strategic marine domains of the Persian Gulf Gulf of Oman Caspian and Mediterranean This 19 chapter volume published in honor of Manuel Berberian a preeminent geologist from the region brings together a wealth of new data analyses and frontier research on the geologic evolution collisional tectonics active deformation and historical and modern seismicity of key areas in southwest Asia

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

Mosquitopia Marcus Hall,Dan Tamir,2021-09-02

This edited volume brings together natural scientists social scientists and humanists to assess if or how we may begin to coexist harmoniously with the mosquito The mosquito is humanity s deadliest animal killing over a million people each year by transmitting malaria yellow fever Zika and several other diseases Yet of the 3 500 species of mosquito on Earth only a few dozen of them are really dangerous so that the question arises as to whether humans and their mosquito foe can learn to live peacefully with one another Chapters assess polarizing arguments for conserving and preserving mosquitoes as well as for controlling and killing them elaborating on possible consequences of both strategies This book provides informed answers to the dual question could we eliminate mosquitoes and should we Offering insights spanning the technical to the philosophical this is the go to book for exploring humanity s many relationships with the mosquito which becomes a journey to finding better ways to inhabit the natural world Mosquitopia will be of interest to anyone wanting to explore dependencies between human health and natural systems while offering novel perspectives to health planners medical experts environmentalists and animal rights advocates

African American Doctors of World War I W. Douglas Fisher,Joann H.

Buckley,2015-11-27 In World War I 104 African American doctors joined the United States Army to care for the 40 000 men of the 92nd and 93rd Divisions the Army s only black combat units The infantry regiments of the 93rd arrived first and were turned over to the French to fill gaps in their decimated lines The 92nd Division came later and fought alongside other American units Some of those doctors rose to prominence others died young or later succumbed to the economic and social challenges of the times Beginning with their assignment to the Medical Officers Training Camp Colored the only one in U S

history this book covers the early years education and war experiences of these physicians as well as their careers in the black communities of early 20th century America

Modern Iran Ali Ansari, 2014-07-22 Today s Iran is rarely out of the headlines Labelled by George W Bush as a part of his axis of evil and perceived as a real nuclear threat by some Iran is increasingly seen as an enemy of the West And yet for many Iran remains shrouded in mystery and incomprehensible to Western analysis Modern Iran offers a comprehensive analysis and explanation of political social and economic developments in Iran during the 20th century Since it first published in 2003 Modern Iran has become a staple for students and lecturers wishing to gain a clear understand of the history of this strategically important Middle Eastern Country The new edition will bring us up to date and will include an analysis of the successes and failures of the Khatami Presidency an examination of the effect of 9 11 the rise of the Reform Movement and the efforts to promote Islamic Democracy the resistance to democratisation among the hardline elites

Books in Series , 1985 Vols for 1980 issued in three parts Series Authors and Titles

Rivers Lost, Rivers Regained Martin Knoll, Uwe Lubken, Dieter Schott, 2017-06-13 Many cities across the globe are rediscovering their rivers After decades or even centuries of environmental decline and cultural neglect waterfronts have been revamped up and become focal points of urban life again hidden and covered streams have been daylighted while restoration projects have returned urban rivers in many places to a supposedly more natural state This volume traces the complex and winding history of how cities have appropriated lost and regained their rivers But rather than telling a linear story of progress the chapters of this book highlight the ambivalence of these developments The four sections in Rivers Lost Rivers Regained discuss how cities have gained control and exerted power over rivers and waterways far upstream and downstream how rivers and floodplains in cityscapes have been transformed by urbanization and industrialization how urban rivers have been represented in cultural manifestations such as novels and songs and how more recent strategies work to redefine and recreate the place of the river within the urban setting At the nexus between environmental urban and water histories Rivers Lost Rivers Regained points out how the urban river relationship can serve as a prime vantage point to analyze fundamental issues of modern environmental attitudes and practices

America, History and Life , 1982 Provides historical coverage of the United States and Canada from prehistory to the present Includes information abstracted from over 2 000 journals published worldwide

Saudi Maritime Policy Hatim Al-Bisher, Selina Stead, Tim Gray, 2011-09-14 Because marine governance in most countries is sectoral maritime policies are frequently fragmented reactive and even contradictory meaning that marine resources are underutilized and poorly protected To avoid these problems the concept of integrated national maritime policy INMP has been developed This book examines this concept analysing its current application in four countries Australia Canada UK and USA whilst discussing at length how it might be applied to Saudi Arabia Based on extensive fieldwork carried out in Saudi Arabia including interviews with officials in government departments with maritime responsibilities and a survey administered to 230 stakeholders the book offers a unique insight into INMP in the Kingdom

The book provides a practical template for developing the political will and civil constituency in Saudi Arabia necessary for the introduction of INMP. In setting out in detail its benefits, this book could help build the momentum in Saudi Arabia required to implement the concept as well as attract other countries to do the same. A significant contribution to the growing literature on ocean governance, this book will be of great importance to policy makers and scholars of Middle Eastern studies, marine governance, and comparative politics.

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