

## **Agricultural Science (501/1, 2, 3) Preamble**

The Examinations Council of Zambia has made adjustments to the assessment of Agricultural Science at Grade 9 level so as to be in line with the revised Agricultural Science Junior Secondary School Syllabus of 2013 developed by Curriculum Development Centre (CDC) of the Ministry of Education, Science, Vocational Training and Early Education (MESVTEE).

The purpose of the specimen papers is to guide the teachers and would be candidates on the nature and content of the Grade 9 Agricultural Science examination which will begin to be administered in 2015 examination session.

## **Assessment Aims and Objectives**

The purpose of the Grade 9 Agricultural Science examination is to test candidate's understanding and ability to apply the subject in real life. Assessment of Grade 9 students in Agricultural Science will contribute to the certification of candidates, measurement of academic attainment, promotion of learners to Grade 10 and feedback to educators on effectiveness of instruction. The Grade 9 examination will assess candidate's performance against the following three (3) Assessment Objectives:

- 1. knowledge with understanding**
- 2. handling of information and problem solving**
- 3. practical activities.**

## **Test Design**

The Grade 9 examination will consist of three papers: Paper 1 (501/1), Paper 2 (501/2) and Paper 3 (501/3).

Paper 1 (1 Hour) will consist of 40 compulsory multiple choice items (questions) carrying 40 marks. The 40 questions will be drawn from all the topics of the syllabus.

Paper 2 (2 hours) will consist of 8 compulsory structured questions carrying 10 marks each. The 8 questions will also cover all the topics in the syllabus.

Paper 3 will be a school-based project done in the period beginning from Grade 8 term 3 and ending by Grade 9 term 2. Each pupil is expected to maintain records of project work in an exercise book or file which should be available for inspection and assessment. The Head of Department, Headteacher and Standards Officers in charge of Examinations at district level will monitor projects for candidates at different stages of implementation.

The number of questions and mark weighting is summarised below:

COMPONENT	PAPER TYPE	NO. OF QUESTIONS	MARKS	WEIGHTING OF MARKS	TIME ALLOWANCE
501/1	Multiple Choice	40	40	29%	1 hour
501/2	Theory	8	80	57%	2 hours
501/3	Project	1	20	14%	2 hours

# Agricultural Science Paper 1 For November 2014

**JA Banks**

## **Agricultural Science Paper 1 For November 2014:**

Europe and Central Asia Regional Overview of Food Security and Nutrition 2024 Food and Agriculture Organization of the United Nations, IFAD; UNECE; UNICEF; WHO and WMO, 2025-04-01 This report provides the latest updates on hunger food insecurity and malnutrition in Europe and Central Asia including the cost and affordability of healthy diets. It also explores the central theme of water security highlighting its critical connections to agriculture food security and nutrition. While the region has made progress in reducing hunger and food insecurity SDG Target 2.1 challenges remain in eliminating all forms of malnutrition SDG Target 2.2 Food insecurity and malnutrition persist in some countries influenced by income levels socioeconomic factors and climate risks. In 2023 global undernourishment remained at 9.1 percent whereas the region has stayed below 2.5 percent since 2005 except in Central Asia 3 percent in 2023 and marginally higher in 2022. Food insecurity affected 11.5 percent of the population in 2023 well below the global average 28.9 percent. Many countries have reduced child stunting wasting and low birthweight but childhood overweight anaemia in women aged 15-49 and adult obesity remain concerns. In 2022 64.3 million people in the region couldn't afford a healthy diet though numbers have declined after the pandemic. At 16.3 percent Central Asia had the highest unaffordability rate. Water security challenges including scarcity ageing infrastructure pollution and weak governance affect Central Asia the Caucasus and the Western Balkans. Poor water sanitation and hygiene infrastructure in some areas impacts nutrition and health. The report recommends improving water conservation and recycling and exploring the use of alternative sources such as desalination and groundwater. Strengthening transboundary cooperation and promoting sustainable water management are crucial. Reducing agriculture's water footprint through efficient crop choices can enhance climate resilience and long term water sustainability.

**THE CLIMATE PHENOMENON** Patrick K. Kalifungwa, 2024-11-13 Climatology or climate science is the scientific study of Earth's climate typically defined as weather conditions averaged over a period of at least 30 years. Climate Glossary. Climate concerns the atmospheric condition during an extended to indefinite period. Weather is the condition of the atmosphere during a relative brief period. The main topics of research are the study of climate variability mechanisms of climate changes and modern climate change drought unl.edu 2017 Way back 2006. This topic of study is regarded as part of the atmospheric sciences and a subdivision of physical geography which is one of the Earth sciences. Climatology includes some aspects of oceanography and biogeochemistry. The main methods employed by climatologists are the analysis of observations and modelling of the physical processes that determine climate. Short term weather forecasting can be interpreted in terms of knowledge of longer term phenomena of climate for instance climatic cycles such as the El Niño, Southern Oscillation ENSO, the Madden Julian oscillation MJO, the North Atlantic oscillation NAO, the Arctic oscillation AO, the Pacific decadal oscillation PDO and the Interdecadal Pacific Oscillation IPO. Climate models are used for a variety of purposes from studying the dynamics of the weather and climate system to predictions of future climate drought unl.edu 2017.

*Singapore Hawker Classics Unveiled* Temasek Polytechnic, 2015-07-15 Produced as a celebration of Singapore's renowned culinary heritage Singapore Hawker Classics Unveiled tells you everything you ever needed to know and more about 25 of our favourite dishes The 25 delicious recipes featured will allow you to recreate your favourite classic hawker treats at home and inspire you to look at these familiar dishes in a new light each dish includes its traditional presentation together with an additional interpretation with a modern twist Moreover every dish is covered in great detail including information on its heritage its aroma taste and texture its nutritional value as well as clear step by step instructions and photographs

*The Indian Journal of Agricultural Sciences*, 2018 Food Security Governance Nora McKeon, 2014-12-17 This book fills a gap in the literature by setting food security in the context of evolving global food governance Today's food system generates hunger alongside of food waste burgeoning health problems massive greenhouse gas emissions Applying food system analysis to review how the international community has addressed food issues since World War II this book proceeds to explain how actors link up in corporate global food chains and in the local food systems that feed most of the world's population It unpacks relevant paradigms from productivism to food sovereignty and highlights the significance of adopting a rights based approach to solving food problems The author describes how communities around the world are protecting their access to resources and building better ways of producing and accessing food and discusses the reformed Committee on World Food Security a uniquely inclusive global policy forum and how it could be supportive of efforts from the base The book concludes by identifying terrains on which work is needed to adapt the practice of the democratic public sphere and accountable governance to a global dimension and extend its authority to the world of markets and corporations This book will be of interest to students of food security global governance development studies and critical security studies in general

*Governing Agricultural Sustainability* Phil Macnaghten, Susana Carro-Ripalda, 2015-06-26 Although GM crops are seen by their advocates as a key component of the future of world agriculture and as part of the solution for world poverty and hunger their uptake has not been smooth nor universal they have been marred by controversy and all too commonly their regulation has been challenged as inadequate even biased This book aims to understand these dynamics examining the impacts of GM crops in diverse contexts and their potentials to contribute to sustainable agricultural futures Part 1 draws on research from three global rising powers Brazil India and Mexico exploring the views of scientists farmers and publics Using a diverse array of ethnographic and qualitative methodologies the book examines the dynamics that have underpinned the controversy in three diverse geo political contexts the manner in which dominant institutional framings have been closely aligned with the interests of powerful elites and the multiple ways in which these have been resisted through local symbolic and material practices Part 2 comprises a series of short comment pieces from 11 leading social and natural scientists responding to the question of how to develop a policy framework for the responsible innovation of sustainable culturally appropriate and socially just agricultural GM technologies This innovative book offers new insights for researchers

and postgraduates in Science and technology studies Agro ecology and Environmental Studies Development studies Anthropology Human Geography Sociology Political Science Public Administration Latin American studies and Asian studies

*Law and Regulation of Mobile Payment Systems* Joy Malala,2017-11-28 Over the last ten years mobile payment systems have revolutionised banking in some countries in Africa In Kenya the introduction of M Pesa a new financial services model has transformed the banking and financial services industry Giving the unbanked majority access to the financial services market it has attracted over 18 million subscribers which is remarkable given that fewer than 4 million people in Kenya have bank accounts This book addresses the legal and regulatory issues arising out of the introduction of M Pesa in Kenya and its drive towards financial inclusion It considers the interaction between regulation and technological innovation with a particular focus on the regulatory tools institutional arrangements and government decisional processes through the examination as a whole of its regulatory capacity This is done with a view to understanding the regulatory capacity of Kenya in addressing the vulnerabilities presented by technological innovation in the financial industry for consumers after financial inclusion It also examines the way that mobile payments have been regulated by criticising the piecemeal approach that the Central Bank of Kenya has taken in addressing the legal and regulatory issues presented by mobile payments The book argues there are significant gaps in the regulatory regime of mobile banking in Kenya *Tropical Agriculture* ,2016

Climate Change Adaptation and Food Supply Chain Management Ari Paloviita,Marja Järvelä,2015-08-20 The success of the entire food supply chain depends on the prosperity of farms and local communities The direct climate change risks faced by the agricultural sector are therefore also risks to businesses and food supply chains Hence the importance of resilience at farm level community level and business level when looking at food supply chain policy and management Climate Change Adaptation and Food Supply Chain Management highlights the issue of adaptation to climate change in food supply chains the management and policy implications and the importance of supply chain resilience Attention is given to each phase of the supply chain input production agriculture food processing retailing consumption and post consumption European case studies demonstrate the vulnerabilities of contemporary food supply chains the opportunities and competitive advantages related to climate change and the trans disciplinary challenges related to successful climate adaptation The authors argue for a redefinition of the way food supply chains are operated located and coordinated and propose a novel approach enhancing climate resilient food supply chain policy and management This book will be of interest to students researchers practitioners and policymakers in the field of climate adaptation and food supply chain management and policy PCAARRD Annual Report Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development,2014 *White Paper on Science and Technology* ,2015 *The Routledge Atlas of South Asian Affairs* Robert W. Bradnock,2015-10-14 South Asia has developed from a group of newly independent post Colonial states of at most secondary importance to the wider world to its current position as a region of central strategic importance to both global economic development and world peace and

stability This Atlas highlights the global significance of South Asia in relation to economic geopolitical and strategic interests It provides a coherent descriptive and analytical account of the key elements of the complex societies that make up the region and its component countries Illustrated with more than 100 original maps and offering concise entries on key issues the book is structured thematically in these sections Global Context Geographical Environments Historical Evolution of South Asia Key Issues in modern South Asia Economy and Security Designed for use in teaching undergraduate and graduate classes and seminars in geography history economics anthropology international relations political science and the environment as well as regional courses on the South Asia this book is also a comprehensive reference source for libraries and decision makers focusing on South Asia Sustaining Human Progress Khalid Malik,2014 Most people in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives **Sustainable Livestock Production in the Perspective of Food Security, Policy, Genetic Resources, and Climate Change** Asian-Australian Association of Animal Production Societies. Congress,2014 Proceedings that contains a total of 754 abstracts consists of 368 papers for oral presentation and 386 papers for poster Preface

*Canadian Journal of Forest Research* ,2015-10 **Asian Journal of Agriculture and Development** ,2019-06

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