



EXAMINATION NO.:  
**THE MALAWI NATIONAL EXAMINATIONS BOARD**

2014 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

**AGRICULTURE**

Subject Number: M012/1

Monday, 14 July

Time Allowed: 2 hours  
8:30 – 10:30 am

**PAPER I**  
(100 marks)

**Instructions:**

1. This paper contains 12 pages. Please check.
2. This paper has two sections, A and B. Section A has ten questions and Section B, four questions.
3. Answer all questions in the spaces provided.
4. Write your Examination Number on all pages.
5. In the table provided on this page, tick against the question number you have answered.
6. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns
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# 2014 Agriculture Paper 1

**Food and Agriculture Organization**

## 2014 Agriculture Paper 1:

**Push Button Agriculture** K. R. Krishna, 2017-03-16 This book covers three main types of agricultural systems the use of robotics drones unmanned aerial vehicles and satellite guided precision farming methods Some of these are well refined and are currently in use while others are in need of refinement and are yet to become popular The book provides a valuable source of information on this developing field for those involved with agriculture and farming and agricultural engineering The book is also applicable as a textbook for students and a reference for faculty

### **Agricultural diversification in Nepal:**

**Status, determinants, and its impact on rural poverty** Thapa, Ganesh, Kumar, Anjani, Joshi, Pramod Kumar, 2017-04-28 As in many parts of the developing world the share of high value crops in agricultural gross domestic product AgGDP has increased substantially in Nepal We contribute to the literature on trends in agricultural development in the poorest countries by answering the research question on Does transition from traditional to high value agriculture reduce rural poverty in poor developing countries We also identified the drivers leading to this transition The study uses survey data from three rounds of the nationally representative Nepal Living Standard Surveys NLSS I 1994 1995 NLSS II 2004 2005 and NLSS III 2010 2011 Multi level model was used to study the determinants of agricultural diversification To estimate the causal impact of agricultural diversification on welfare measures propensity score matching and instrumental variable techniques were used Results indicate that there has been a rightward shift in the distribution of the share percent of high value crops between 1995 and 2004 and between 2004 and 2010 respectively The area as well as the shared by major cereals paddy maize and wheat is declining over years However it is increasing for high value crops potato vegetables spices condiments and fruits The percentage increase in share of the high value crops was higher in or adjacent to urbanized districts between 1995 and 2010 The factors positively associated with the agricultural diversification are female headed households caste mother's education net buyer status urban region remittance farm size kitchen garden improved seeds telephone and refrigerator We found positive impact of agricultural diversification towards high value crops on rural poverty and monthly per capita consumption expenditure However for cereal crops grower we find the negative impact on poverty and monthly per capita consumption expenditure

**Global Climate Change and Environmental Policy** V. Venkatramanan, Shachi Shah, Ram Prasad, 2019-10-11 Global climate change threatens human existence through its potential impact on agriculture and the environment Agriculture is climate sensitive and climate variability and climate change have net negative impact on it Additionally the agricultural landscape is affected by monoculture and agro biodiversity loss soil fertility depletion and soil loss competition from biofuel production crop yield plateaus and invasive species Nevertheless the global agricultural production system has to meet the food demands from the growing human population which is set to exceed 10 billion by 2050 This book discusses the impacts of climate change on agriculture animal husbandry and rural livelihoods Further since agriculture forestry and other land use sectors contribute about 10 12 gigatonnes of CO<sub>2</sub> equivalent per year it argues that

agricultural policy must dovetail adaptation and mitigation strategies to reduce greenhouse gases emissions This calls for a reformative and disruptive agricultural strategy like climate smart agriculture which can operate at all spatio temporal scales with few modifications The book also redefines sustainable agriculture through the lens of climate smart agriculture in the context of the sustainability of Earth s life support system and inter and intra generational equity The climate smart agriculture approach is gaining currency thanks to its inherent positive potential and its goal to establish an agricultural system which includes climate smart food systems climate proof farms and climate smart soils Climate smart agriculture provides a pathway to achieve sustainable development goals which focus on poverty reduction food security and environmental health

**Managing soil health for sustainable agriculture Volume 2** Dr Don Reicosky,2018-08-06

Discusses key methods for monitoring soil health Comprehensive review of techniques to manage soil health such as the use of rotations intercropping and cover crops Case studies of ways of supporting smallholders in maintaining soil health in regions such as Africa Asia and South America

**Growth, Poverty and Developmental Aspects of Agriculture** Ramesh

Chandra Das,2024-11-20 This collected edition delves into diverse aspects of agricultural economics and food security across various regions

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

*The State of Food and Agriculture 2017* Food and Agriculture

Organization,2017-11-10 One of the greatest challenges today is to end hunger and poverty while making agriculture and food systems sustainable The challenge is daunting because of continued population growth profound changes in food demand and the threat of mass migration of rural youth in search of a better life This report presents strategies that can leverage the potential of food systems to become the engine of inclusive economic development and rural prosperity in low income countries It analyses the structural and rural transformations now under way and examines the opportunities and

challenges they present to millions of small scale food producers It shows how an agroterritorial planning approach focused on connecting cities and towns and their surrounding rural areas combined with agro industrial and infrastructure development can generate income opportunities throughout the food sector and underpin sustainable and inclusive rural transformation

**The Indian Journal of Agricultural Sciences** ,2018    Asian Journal of Agriculture and Development ,2018-12    **Commodities and Development Report 2015** ,2015    *Outlook on Agriculture* ,2015    **California**

**Agriculture** ,2021-04    *From Fome Zero to Zero Hunger* José Francisco Graziano da Silva,2019 This publication discusses the international Zero Hunger agenda in light of the achievements of the Fome Zero programme in Brazil It revisits successful initiatives and discusses current actions while also critically assessing new and growing challenges to the global food security agenda obesity and climate change Bringing together contributions from international experts the book charts a path for translating political will into political action The example of Brazil and the country s Fome Zero programme have shown that a comprehensive approach to hunger based on a multisectoral social protection agenda and strong political leadership is the key to success Building on this experience the Zero Hunger Challenge launched by the UN in 2012 has mobilized an unprecedented global commitment to end hunger worldwide Five of the 17 Sustainable Development Goals of the 2030 Agenda address this issue Tackled together these goals can end hunger eliminate all forms of malnutrition and build inclusive and sustainable food systems Indeed the goals will have to be met if countries are to eradicate poverty and pave the way to long term sustainable growth Time is passing and the current disturbing world hunger figures call for renewed efforts Our present actions will be decisive in achieving a more equitable and sustainable world This book provides an opportunity to recall the achievements realized so far and inspire our future efforts

**The State of Food Insecurity in the World** ,2015    *Tropical Agriculture* ,2016    **State of Agricultural Commodity Markets** Food And Agriculture

Organization Of The United Nations,2016 In the first half of 2008 the world was facing the highest food price levels in 30 years and a global food insecurity crisis Although international food prices have since fallen they are still above the levels seen in recent years and are expected to remain so FAO estimates that soaring food prices pushed another 115 million people into chronic hunger in 2007 and 2008 bringing the world to nearly one billion hungry people This report explains why food prices increased and the steps needed to ensure that high food prices become an opportunity for developing country farmers to help safeguard world food supplies at affordable prices

*Empowering Women for Sustainable Energy Solutions to Address Climate Change* ,2015    **Writing Spatiality in West Africa** Madhu Krishnan,2018 From the imaginative

geographies of conquest identified by Edward Said to the very real and material institution of territorial borders regions and geographical amalgamations the control administration and integration of space are known to have played a central and essential role in the creation of contemporary Africa Space continues to be a site of conflict from separatist struggles to the distribution of resources to the continued absorption of African territories into the uneven geographies of global capitalism In

this book Madhu Krishnan examines the ways in which the anxieties and conflicts engendered by these phenomena are registered in a broad set of literary texts from British and French West Africa. By placing these novels in dialogue with a range of archival material such as territorial planning documents, legislative papers, records of liberation movements and development projects, this book reveals the submerged articulations between spatial planning and literary expression, generating new readings of canonical West African texts as well as analyses of otherwise under-researched material.

Publisher's description     [Regional Development Dialogue](#) ,2013 An international journal focusing on third world development problems     *Survey of Economic and Social Developments in the Arab Region 2015-2016* United Nations Publications,2017-01-04 Trends can be noted for the past five years and with this in mind the 2015/16 Survey will utilize recent data in order to take stock of the impact of instability and conflict and address the foregone growth and output and destructive effects of this period

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