

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

2014 February March Agricultural Science Paper Supplementary

Huw D Jones



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Issues in Agricultural Trade Policy Proceedings of the 2014 OECD Global Forum on Agriculture OECD, 2015-05-05 This book brings together a collection of papers prepared for the Global Forum on Agriculture that took place at the OECD in December 2014 **Agriculture, Rural Development, Food and Drug Administration, and Related Agencies**

Appropriations for 2016 United States. Congress. House. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, 2015 [Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations for 2016: Food and Drug Administration; Farm Credit](#)

[Administration; Commodity Futures Trading Commission](#) United States. Congress. House. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, 2015 [Biological and Genetic Basis of Agronomical and Seed Quality Traits in Legumes](#) Jose C. Jimenez-Lopez, Alfonso Clemente, Sergio J.

Ochatt, Maria Carlota Vaz Patto, Eric Von Wettberg, Petr Smýkal, 2022-11-10 **Unnaturally Delicious** Jayson

Lusk, 2016-03-22 The food discussion in America can be quite pessimistic With high obesity rates diabetes climate change chemical use water contamination and farm animal abuse it would seem that there wasn't very much room for a positive perspective The fear that there just isn't enough food has expanded to new areas of concern about water availability rising health care costs and dying bees In *Unnaturally Delicious* Lusk makes room for optimism by writing the story of the changing food system suggesting that technology and agriculture can work together in a healthy and innovative way to help solve the world's largest food issues and improve the farming system as we know it This is the story of the innovators and innovations shaping the future of food You'll meet an ex farmer entrepreneur whose software is now being used all over the world to help farmers increase yields and reduce nutrient runoff and egg producers who've created new hen housing systems that improve animal welfare at an affordable price There are scientists growing meat in the lab Without the cow College students are coaxing bacteria to signal food quality and fight obesity Nutrient enhanced rice and sweet potatoes are aiming to solve malnutrition in the developing world Geneticists are creating new wheat varieties that allow farmers sustainably grow more with less And we'll learn how to get fresh tasty 3D printed food at the touch of a button perhaps even delivered to us by a robotic chef Innovation is the American way Thomas Jefferson George Washington Carver and John Harvey Kellogg were food and agricultural entrepreneurs Their delicious innovations led to new healthy tasty convenient and environmentally friendly food The creations were unnaturally delicious Unnatural because the foods and practices they fashioned were man made solutions to natural and man made problems Now the world is filled with new challenges changing the way we think about food Who are the scientists entrepreneurs and progressive farmers who meet these challenges and search for solutions

Unnaturally Delicious has the answers **Oversight of Biological and Ecological Emergencies** Ahilya

Bandopadhyay, 2025-01-24 Oversight of Biological and Ecological Emergencies delves into managing biological disasters and

ecological crises that impact public health and the environment The book covers topics such as bioterrorism invasive species management and strategies for reducing the spread of infectious diseases We explore case studies on the impacts of biological emergencies and provide practical guidelines for emergency preparedness and response The book also addresses policy frameworks and international cooperation needed to manage these crises effectively Ideal for public health officials environmental scientists and emergency planners this resource offers actionable insights for handling biological and ecological threats

Biosafety of Genetically Modified Organisms, Volume II Andrew F. Roberts,Joerg Romeis,Karen Hokanson,Reynaldo Ariel Alvarez Morales,2020-10-27 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact *2017 The State of Food and Agriculture* Food and Agriculture Organization of the United Nations,2018-04-04 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

Biostimulants in Agriculture II: Towards a Sustainable Future Maurizio Ruzzi,Giuseppe Colla ,Youssef Roupheal,2024-06-11 Modern agriculture needs to review and broaden its practices and business models by integrating opportunities coming from different adjacent sectors and value chains including the bio based industry in a fully circular economy strategy Searching for new tools and technologies to increase crop productivity under optimal and sub optimal conditions and to improve resources use efficiency is crucial to ensure food security while preserving soil quality microbial biodiversity and providing business opportunities for farmers Biostimulants based on microorganisms or organic substances obtained from renewable materials represent a sustainable efficient technology or complement to synthetic counterparts to improve nutrient use efficiency and secure crop yield stability Under the new European Union Regulation 2019 1009 plant biostimulants were defined based on four agricultural functional claims as follows Plant biostimulants are products that stimulate plant nutrition processes independently of the product s nutrient

content with the sole aim of improving one or more of the following characteristics of the plant and or the plant rhizosphere 1 nutrient use efficiency 2 tolerance resistance to a biotic stress 3 quality characteristics or 4 availability of confined nutrients in the soil or rhizosphere Many diverse natural substances and chemical derivatives of natural or synthetic compounds as well as beneficial microorganisms are cataloged as plant biostimulants including i humic substances ii plant or animal based protein hydrolysates iii macro and micro algal extracts iv silicon v arbuscular mycorrhizal fungi AMF and vi plant growth promoting rhizobacteria PGPR belonging to the Azotobacter Azospirillum and Rhizobium genera *The Indian Journal of Agricultural Sciences* ,2018

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