



EXAMINATION NO.: \_\_\_\_\_

**THE MALAWI NATIONAL EXAMINATIONS BOARD**

**2015 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION**

# MATHEMATICS

**Subject Number: M131/I**

**Thursday, 25 June**

**Time Allowed: 2 hours**  
**8:00 – 10:00 am**

## PAPER I

(100 marks)

### Instructions

1. This paper contains 14 printed pages. Please check.
2. Answer all the 20 questions in this paper.
3. The maximum number of marks for each answer is indicated against each question.
4. Write your answers in the spaces provided on the question paper.
5. Calculators may be used.
6. The graph paper and blank answer sheet at the end of the question paper can be used if required.
7. All working must be clearly shown.
8. Write your Examination Number at the top of each page of your question paper in the spaces provided.
9. In the table provided on this page, tick against the question number you have answered.

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# 2015 Maneb Practicals

**Hai Yu Xu, Huazheng Liang, Hui  
Zheng, Chun Guang Li**

## **2015 Maneb Practicals:**

**Silymarin Puzzle** Peter Surai, Anton Surai, 2023-06-26 For the last 30 years polyphenols were in the centre of research work worldwide Silymarin an extract from a medicinal plant *Silybum marianum* also known as milk thistle has a special place in this group having been used in human medicine for the management of liver diseases since ancient times Accumulating scientific evidence indicates that silymarin is characterised by a wide range of protective pharmacological activities and this topic has received tremendous attention in recent years However until now there has been no single monograph addressing major questions related to silymarin chemistry biochemistry and practical applications The goal of this book is to provide up to date information about silymarin chemistry biochemistry and molecular mechanisms of protective actions of this phytochemical with a special emphasis to its vitagene and transcription factor modulating properties Silymarin applications in human diseases including hepatoprotection neuroprotection anti diabetic anti arthritis and other protective activities are reviewed Immunomodulating anti inflammatory anti toxic protective activities of silymarin are characterised in detail Practical applications of silymarin in poultry and animal industry with a special emphasis on its protective roles in gut health maintenance are also presented This book will be of practical importance to medical and pharmaceutical scientists including medical doctors pharmacists consultants etc as well as to poultry animal scientists poultry producers nutritionists and vets as well as to students of medical biological and agricultural backgrounds It can also be of interest for researchers in areas related to physiology biochemistry nutrition and veterinary medicine

**Private Sector Innovations and Technological Growth in the MENA Region** Ebrahimi, Maryam, 2018-11-09 Technological development is achievable only when a country has the ability to systematically design and introduce its own new technologies In spite of the variety of studies regarding technology management there is still a lack of studies concerning the principle concepts of technology management in the Middle Eastern North African MENA region s firms The generally low level of ICT diffusion in most of the region s countries widens the gap between MENA countries and the modern world Private Sector Innovations and Technological Growth in the MENA Region provides innovative insights into investments made for the digital transformation of major cities in the region that have the potential to become a significant driver for economic development and job creation Highlighting topics such as strategic planning risk analysis and customer loyalty this publication is designed for policymakers economists academicians researchers business professionals and students interested in the use of ICT integration for the advancement of the MENA region

**Herbal Medicines in Managing Stroke and Neurodegenerative Diseases - Is There Evidence Based on Basic and Clinical Studies?** Hai Yu Xu, Huazheng Liang, Hui Zheng, Chun Guang Li, 2021-12-30 *Resources Use Efficiency in Agriculture* Sandeep Kumar, Ram Swaroop Meena, Manoj Kumar Jhariya, 2020-09-18 Achieving zero hunger and food security is a top priority in the United Nations Development Goals UNDGs In an era characterized by high population growth and increasing pressure on agricultural systems efficiency in the use of natural resources has become central to

sustainable agricultural practices Fundamentally speaking eco efficiency is about maximizing agricultural outputs in terms of quantity and quality using less land water nutrients energy labor or capital The concept of eco efficiency involves both the ecological and economic aspects of sustainable agriculture It is therefore essential to understand the interaction of ecosystem constituents within the extensive agricultural landscape as well as farmers economic needs This book examines the latest eco efficient practices used in agro systems Drawing upon research and examples from around the world it offers an up to date overview together with insights into directly applicable approaches for poly cropping systems and landscape scale management to improve the stability of agricultural production systems helping achieve food security The book will be of interest to educators researchers climate change scientists capacity builders and policymakers alike It can also be used as additional reading material for undergraduate and graduate courses on agriculture forestry soil science and the environmental sciences

**New EU criteria for endocrine disruptors** Nordic Council of Ministers,2018-08-30 Endocrine disruptors EDs are substances that adversely affect hormone function The effects by EDs are thought to depend on both dose and timing of exposure especially during foetal development The upcoming EU regulation on identification of EDs application biocides and pesticides will have an impact on all actors of the food chain The consequences of a ban of EDs in foods were discussed in a Nordic workshop Uppsala 29 30 Nov 2016 where risk assessors and managers from Nordic food authorities industry trade associations consumer organizations and researchers were represented It was recognized by all participants that a ban was particularly challenging for the production chain since there are few viable alternatives A harmonized EU legislation based on scientific risk assessment was preferred compared to national specific legislation as it treats all the actors equally

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