

EXAMINATION NO.:___

THE MALAWI NATIONAL EXAMINATIONS BOARD

2024 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

MATHEMATICS

Subject Number: M131/II

Friday, 12 July

Time Allowed: 2 h 30 min 8:00 - 10:30 am

PAPER II

(100 marks)

Instructio	Ins	timu	ctions	
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- This paper contains 19 printed pages. Please check.
- Answer all the six questions in Section A and any four questions from Section B.
- The maximum number of marks for each answer is indicated against each question.
- 4. Scientific calculators may be used.
- The blank answer sheet at the end of the question paper can be used if required.
- 6. All working must be clearly shown.
- Write your Examination Number at the top of each page of your question paper in the spaces provided.
- In the table provided on this page, tick against the question number you have answered.
- At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns
1		
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Turn over



2014 Maneb Resurt

Samantha Chandranath
Karunarathna, Hiran A.
Ariyawansa, Rajesh Jeewon, Sajeewa S.
N. Maharachchikumbura, Belle
Damodara Shenoy

2014 Maneb Resurt:

State of M&E in Malawi ,2014 Pesticide Residues in Food 2014 Food and Agriculture Organization (FAO),2014 The annual Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group on Pesticide Residues was held in pursuance of recommendations made by previous Meetings This report contains information on ADIs ARfDs maximum residue levels and general principles for the evaluation of pesticides The recommendations of the Joint Meeting including further research and information are proposed for use by Member governments of the respective agencies and other interested parties Mitochondria and Neurotoxicity, 2025-06-16 Mitochondria and Neurotoxicity Volume Thirteen in the Advances in Neurotoxicology series presents interesting chapters written by an international board of authors Chapters in this new release include Introduction to mitochondrial toxicity form function and signaling Respirometry parameters as indicators of neurotoxicity Pesticide exposure and hippocampal neurogenesis Role of ER stress and mitochondria Gene Therapy Approaches to Abrogate Pathogenic Mechanisms in Parkinson's disease Mitochondrial dysfunction induced by trichloroethylene in Parkinson's disease and Gut brain axis inflammation induced by mitochondrial toxicants Provides the latest information on Neurotoxicology Offers outstanding and original reviews on Neurotoxicology Serves as an indispensable reference for researchers and students alike Emerging Fungal Plant Pathogens Samantha Chandranath Karunarathna, Hiran A. Ariyawansa, Rajesh Jeewon, Sajeewa S. N. Maharachchikumbura, Belle Damodara Shenoy, 2021-11-05 Mitochondrial Intoxication Marcos Roberto de Oliveira, 2022-11-30 Mitochondrial Intoxication explores the effects toxic molecules can have upon mitochondrial physiology in the human body Each chapter is dedicated to a specific toxicant including pollutants food additives illicit and pharmaceutical drugs and heavy metals This book considers the implications and impact these have upon mitochondria and the diseases that can result from dysfunction and impairment in the human body Furthermore the book provides an overview of mitochondrial physiology and assesses the advances and challenges in testing mitochondrial toxicity Case studies exploring mitochondrial intoxication in pregnancy and in the geriatric population are also included This is a comprehensive reference on the main toxicants impacting mitochondria in the human body and the consequences this can have for health and disease Features a wide range of toxicants and their effects on mitochondrial physiology Covers molecular markers of mitochondrial intoxication Includes case studies that illustrate the health impacts of toxicity upon mitochondria Considers future directions regarding the study of mitochondrial intoxication Mammalian Toxicology Mohamed Abou-Donia, 2015-02-11 Mammalian Toxicology surveys chemical agents and examines how such chemicals impact on human health emphasizing the importance in minimizing environmental exposure to chemical and physical hazards in our homes communities and workplaces through such media as contaminated water soil and air Starting with the basic principles on a wide range of toxic agents this textbook describes how they enter the body their mechanisms of action once inside and

strategies for diagnosis prevention and treatment Topics covered include General principles of toxicology pharmacological and toxicological principles underpinning the study of toxicology risk assessments and mechanisms of cell death Disposition routes of chemical exposures entry into the body and various tissues storage metabolic biotransformation and elimination with examples from various toxicants Toxic agents the occurrences disposition in the body health effects toxic mechanisms antidotes and treatments of a range of agents including pesticides metals solvents gases nanomaterials food components and additives pharmaceuticals drugs of abuse natural toxins endocrine disruptors radiation and warfare weapons Toxic effects including neurotoxicity developmental toxicity immunotoxicity teratogenecity male and female reproductive toxicity mutagenecity carcinogenicity pulmonary toxicity cardiovascular toxicity hepatotoxicity gastrointestinal toxicity and cardiovascular toxicity Toxicology and society epidemiological studies of chemical induced diseases in human populations and a vision for toxicology in the 21st century Mammalian Toxicology is an essential primer for students of toxicology biochemistry biology medicine and chemistry It is also appropriate for professional toxicologists in research or regulatory affairs and anyone who needs to understand the adverse effects of toxic agents on the human body *Environment* Nikolay M. Filipov, 2022-02-18 The book is comprised of individual reviews with the common goal of providing up to date state of the knowledge information on the role the environment plays in the pathogenesis of parkinsonism The reviews focus on recent advances in the quest of deciphering the molecular and cellular mechanisms of parkinsonian dysfunction highlight specific emerging dopaminergic toxicants and an alternative experimental model to study the link between environmental exposures and parkinsonism and provide an update from epidemiological and experimental points of view related to the pesticide exposures and parkinsonism Parkinson's Disease association Foremost experts in their respective fields are the senior authors on each chapter and the book fills a critical void that now exists as a book of similar nature has not been published in the last 15 years Researchers and clinicians with an interest in Parkinson's Disease and related disorders as well as toxicologists graduate students and the general public who are interested in the contribution of environmental factors to neurological dysfunction are among the readership for this book Neurotoxin Modeling of Brain <u>Disorders — Life-long Outcomes in Behavioral Teratology</u> Richard M. Kostrzewa, Trevor Archer, 2016-07-13 This book is authored by leading experts who made major discoveries in neuroteratology research focused on modeling human neural developmental disorders Individual chapters address ADHD attention deficit hyperactivity disorder Lesch Nyhan disease psychoses and schizophrenia autism and models of Parkinson's Disease and tardive dyskinesia. The effects of perinatal stress and agonist insults on life long outcomes are addressed as well as the overall effects of perinatal neurotoxins on development of specific neural phenotypic systems The book provides a unique compendium on how perinatal insults of various types can produce effects in brain that persist throughout the life span Researchers can derive insight into experimental approaches in this research field clinicians can develop insights into the influences of the many noxious and seemingly innocuous

substances that might influence brain development in children

The Pesticide Encyclopedia Kalyani Paranjape, Vasant
Gowariker, V N Krishnamurthy, Sugha Gowariker, 2014-12-22 In today s world food security is an important issue Food
shortages push prices up impacting upon the health and well being of hundreds of millions of rural poor across the globe One
way to increase food security is to decrease the amount of yield lost to pests The Pesticide Encyclopedia provides a
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techniques resistance management interaction of pesticides with soil and the environment An important reference for policy
makers advisers and students and researchers of crop science this book also includes useful notes on commonly known plant
diseases and pests

Neuroethics Judy Illes, Sharmin Hossain, 2017 Over the last decade there have been unparalleled
advances in our understanding of brain sciences In this volume on neuroethics a distinguished group of contributors from a
range of disciplines discuss the ethical implications of this newfound knowledge and set out the many necessary
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