

THE MALAWI NATIONAL EXAMINATIONS BOARD

2024 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

BIOLOGY

Wednesday, 10 July

Subject Number: M022/I

Time Allowed: 2 hours

8:00 - 10:00 am

PAPER I

Theory (100 marks)

Instructions:

- This paper contains 12 printed pages. Please check.
- Before you begin, write your Examination Number at the top of each page of the question paper.
- This paper has two sections, A and B. Section A has ten questions and Section B has three questions.
- Answer all the 13 questions in the spaces provided. The maximum number of marks for each answer is indicated against each question.
- 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 when time is called to stop writing.

Question Number	Tick if	Do not write in these columns
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Maneb Biology Practical

D Kirk

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Brazilian Archives of Biology and Technology ,1999 Annals of Applied Biology ,1969 **Energy Research** Reproductive and Developmental Toxicology Ramesh C. Gupta, 2022-02-11 Selected for Doody's Core Abstracts ,1993 Titles 2024 in Toxicology Reproductive and Developmental Toxicology Third Edition is a comprehensive and authoritative resource providing the latest literature on this complex subject by focusing on three core components parent placenta and fetus and the continuous changes that occur in each Enriched with relevant references describing every aspect of reproductive toxicology this revised and updated resource addresses the totality of the subject discussing a broad range of topics including nanoparticles and radiation gases and solvents smoking alcohol and drugs of abuse and metals among others In addition it is the only resource to include reproductive and developmental toxicity in domestic animals fish and wildlife With a special focus on placental toxicity this book is the only available reference to connect the three key risk stages Completely revised and updated to include the most recent developments in the field this book is an essential resource for advanced students and researchers in toxicology as well as biologists pharmacologists and teratologists from academia industry and regulatory agencies Provides a complete up to date integrated source of information on the key risk stages during reproduction and development Offers diverse and unique in vitro and in vivo toxicity models for reproductive and developmental toxicity testing in a user friendly format that assists in comparative analysis Includes new chapters on developments in systems toxicology and predictive modeling of male developmental toxicity adverse outcome pathways in reproductive and developmental toxicology ovarian and endometrial toxicity developmental neurotoxicity of air pollution and Pesticides Documentation Bulletin ,1969 Haves' Principles and Methods of Toxicology A. Wallace more Hayes, Claire L. Kruger, 2014-10-10 Hayes Principles and Methods of Toxicology has long been established as a reliable reference to the concepts methodologies and assessments integral to toxicology. The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field With new The Farmers' Club Journal ,1986 **Plant Pathology** George Agrios, 2012-12-02 Plant Pathology authors and new chap Second Edition incorporates developments in identifying pathogens and disease diagnosis This book is organized into two major parts encompassing 16 chapters that discuss general aspects of plant diseases and specific plant diseases caused by various microorganisms This edition includes chapters or sections on diseases caused by mycoplasma like organisms rickettsia like bacteria viroids and protozoa Information on the genetics of plant diseases the development of resistant varieties and their vulnerability to new pathogen races is added in this release It also includes information on the development of epidemics The presentation of these topics is followed by a discussion on systemic fungicides and biological control of diseases as well as postharvest diseases of plant products Furthermore this edition also explains mycotoxins and mycotoxicoses as well as techniques of isolation culturing indexing and identification of pathogens It also studies mycorrhiza

and root nodule bacteria Considerable chapters describe diseases caused by fungi and those caused by bacteria which have been organized in logical cohesive groups according to their most important symptoms Diagrams of disease cycles groups of pathogens and symptoms and techniques and concepts of plant pathology are incorporated in each chapter Moreover this edition provides numerous photographs macroscopic microscopic electron micrographs and scanning electron micrographs that illustrate concepts pathogens and symptoms Teachers and students who are interested in plant pathology and plant diseases and control will find this book very helpful <u>List of Publications Annotated</u> North Central Forest Experiment Station (Saint Paul, Minn.),1973 Turfgrass John C. Stier, Brian P. Horgan, Stacy A. Bonos, 2020-01-22 Sustainability is a key framework for analyzing biological systems and turfgrass is no exception It is part of a complex that encompasses turfgrass interactions with different environments and the suitability of different turfgrasses for specific environments In addition to its biological role turfgrass in the form of lawns green spaces and playing surfaces brings beneficial sociological effects to an increasingly urbanized society This book presents a comprehensive overview of current knowledge and issues in the field of turfgrass research and management including the genetics and breeding the diseases and pests and the ecology of turfgrasses and will appeal to a broad spectrum of readers Environmentally Safe Approaches to Crop Disease Control Jack E. Rechcigl, 2018-01-18 The use of chemicals in agriculture and home gardens has become an area of concern due to improper use and negative environmental effects Environmentally Safe Approaches to Crop Disease Control addresses alternative approaches for managing crop diseases It gives a balanced overview of state of the art environmentally safe approaches to crop disease control and discusses the latest trends General Technical Report RM., 1990

growing field of Exposomics The term Exposome describes the sum of all exposures not only chemical that an individual can receive over a lifetime from both exogenous sources environmental contaminants food lifestyle drugs air etc and endogenous sources metabolism oxidative stress lipid peroxidation chemicals synthesized by the microbiome etc The first section of this book contains chapters that discuss how the Exposome is defined and how the concept fits into the fields of public health and epidemiology The second section provides an overview of techniques and methods to measure the human Exposome The third section contains methods and applications for measuring the Exposome through external exposures Section four provides an overview on statistical and computational techniques including big data analysis for characterizing the Exposome Section five presents a global collection of case studies Foods and Food Production Encyclopedia Douglas M. Considine, 2012-12-06 Stored Tobacco Insects Brian Joe Lobley Berry, Frank Freese, Henry Shepherd, John A. Baker, Philip Berry Dowden, Ralph Rudolph Botts, Walter Ernest Fleming, William John Zaumeyer, Herbert Rex Thomas, 1962 Selected Water Resources Abstracts ,1977 Publications of the Rocky Mountain Forest and Range Experiment Station 1980-1989 **Government Reports Announcements & Index**, 1993-08 .1992

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