



EXAMINATION NO.: \_\_\_\_\_  
**THE MALAWI NATIONAL EXAMINATIONS BOARD**  
2024 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

# BIOLOGY

Subject Number: M022/I

Time Allowed: 2 hours

8:00 – 10:00 am

Wednesday, 10 July

## PAPER I

Theory  
(100 marks)

### Instructions:

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

Question Number	Tick if answered	Do not write in these columns	
1			
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# Maneb 2012 Biology Paper

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## **Maneb 2012 Biology Paper :**

**Management of Emerging Public Health Issues and Risks** Benoit Roig, Karine Weiss, Veronique Thireau, 2018-11-13  
Management of Emerging Public Health Issues and Risks Multidisciplinary Approaches to the Changing Environment addresses the threats facing the rapidly changing world and provides guidance on how to manage risks to population health. Unlike conventional and recognized risks, major industrial and natural emerging risks are characterized by low or non-existent scientific knowledge, high levels of uncertainty, and different levels of acceptability by the relevant authorities and exposed populations. Emerging risk must be analyzed through multiple and crossed approaches, identifying the phenomenon linked to the emergence of risk but also by combining scientific, policy, and social data in order to provide more enlightened decision making. Management of Emerging Public Health Issues and Risks Multidisciplinary Approaches to the Changing Environment provides examples of transdisciplinary approaches used to characterize, analyze, and manage emerging risks. This book will be useful for public health researchers, policy makers, and students, as well as those working in emergency management, risk management, security, environmental health, nanomaterials, and food science. Presents emerging risks from the technological, environmental, health, and energy sectors, as well as their social impacts. Contextualizes emerging risks as new threats, existing threats in new locations, and known issues which are newly recognized as risks due to increased scientific knowledge. Includes case studies from around the world to reinforce concepts. *Zebrafish Models of Neurodegenerative Disorders* Ebru Emekli-Alturfan, 2025-09-08 Advancing our understanding of neurodegenerative diseases demands innovative tools and approaches. *Zebrafish Models in Neurodegenerative Disorders* offers a comprehensive examination of zebrafish as a translational model for studying the molecular and cellular mechanisms of diseases such as Alzheimer's, Parkinson's, and Huntington's diseases. Beginning with the first section informing about the basic molecular mechanisms of neurodegenerative disorders, biomarkers, and therapeutic approaches, the book continues with the detailed exploration of zebrafish physiology, genetics, and behavioural phenotypes as they pertain to neurodegenerative pathologies, insight into cutting edge technologies including CRISPR/Cas9 genome editing, and in depth analysis of zebrafish models highlighting their strengths in modelling disease progression and therapeutic testing. **Applying Big Data Analytics in Bioinformatics and Medicine** Lytras, Miltiadis D., Papadopoulou, Paraskevi, 2017-06-16 Many aspects of modern life have become personalized, yet healthcare practices have been lagging behind in this trend. It is now becoming more common to use big data analysis to improve current healthcare and medicinal systems and offer better health services to all citizens. *Applying Big Data Analytics in Bioinformatics and Medicine* is a comprehensive reference source that overviews the current state of medical treatments and systems and offers emerging solutions for a more personalized approach to the healthcare field. Featuring coverage on relevant topics that include smart data, proteomics, medical data storage, and drug design, this publication is an ideal resource for medical professionals, healthcare practitioners, academicians, and researchers interested

in the latest trends and techniques in personalized medicine      Yearbook of International Organizations 2013-2014  
(Volumes 1a-1b) Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers  
international organizations throughout the world comprising their aims activities and events

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