



EXAMINATION NO.: _____
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:

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	
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Maneb 2015 Biology Quetions

Ramesh S. V., Shelly Praveen



Maneb 2015 Biology Questions:

Vitagenes in avian biology and poultry health Peter Surai, 2023-08-14 Commercial poultry production is associated with various types of stress leading to decrease of productive and reproductive performance and compromised health of growing chickens parent birds as well as commercial layers Stress adaptation is associated with various signaling pathways and is executed at the gene level The term vitagenes refers to a group of redox sensitive genes that are involved in stress sensing and preserving cellular adaptive homeostasis The vitagene family includes heat shock proteins superoxide dismutase glutathione and thioredoxin systems and sirtuins The vitagenes are key players in redox signaling and redox homeostasis maintenance in birds including poultry under commercial stress conditions of egg and meat production Development of the vitagene concept become an important milestone in understanding molecular mechanisms of adaptation to stress The goal of this book is to provide up to date information about the roles of vitagenes in avian biology and poultry health Special emphasis is put on the role of vitagenes as an essential part of the redox homeostasis maintenance stress adaptation and development of adaptive homeostasis The book provides data to indicate that nutritional modulation of vitagenes is a new direction in nutritional sciences Practical results of the successful usage of the vitagene concept in poultry production are also presented This book is intended to be of practical importance to avian animal scientists poultry producers to nutritionists and vets students of biological and agricultural colleges and universities It can also be interesting for researchers in areas related to physiology biochemistry nutrition ecology environmental sciences evolutionary biology etc Melanoma

Development Anja K. Bosserhoff, 2017-01-20 This book focuses on malignant melanoma discussing the current state of scientific knowledge and providing insights into the underlying basic mechanisms the molecular changes genetics and genomics Human Melanoma is a dangerous type of skin cancer affecting an increasing population and a better understanding of its development will help in finding sophisticated targeted therapies The second revised edition features the latest research findings and offers updates on the latest advances and potential novel melanoma therapies It is a valuable resource for researchers and clinicians working in the fields of melanoma cancer research and therapy as well as dermatology

Yearbook of International Organizations 2014-2015 (Volume 3) Union Of International Associations, Union of International Associations, 2014-08-20 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3 Conceptualizing Plant-Based Nutrition Ramesh S. V., Shelly Praveen, 2022-10-10

This book deliberates on the various aspects of plant based nutrition Plant based nutrition has numerous potential health benefits as it is low on calories nevertheless high on nutrient density and satiety and also nutrient supplementation makes them wholesome diets Starting with the importance of biodiversity contributing to the nutrition the book discusses the development or utilization of nutrient dense crops foods with their bioavailability properties and health effects Further it deals with the enrichment of micronutrients through bio fortification fortification the role of food matrix and nutrient bioavailability including the role of plant based milk alternatives The linkage between food and health is also being discussed in the context of anti nutritional factors metabolic fate of the food and genomics Finally the implications of next gen biotech crops and food safety issues imperative to define the concept of safe nutrition are discussed With contributions from plant nutrition experts this book serves as a one stop reference for plant scientists food technologists and nutritionists looking to understand the concept of plant based nutrition and its linkage with human health

Bioactive Compounds from Microbes Roberto Mazzoli, Katharina Riedel, Enrica Pessione, 2017-06-02 Microorganisms have had a long and surprising history They were invisible until invention of microscope in the 17th century Until that date although they were extensively but unconsciously employed in food preservation beer and wine fermentation cheese vinegar yogurt and bread making as well as being the causative agents of infectious diseases they were considered as not existing The work of Pasteur in the middle of the 19th century revealed several biological activities performed by microorganisms including fermentations and pathogenicity Due to the urgent issue to treat infectious diseases the main cause of death at those times the positive potential of the microbial world has been neglected for about one century Once the fight against the evil strains was fulfilled also thanks to the antibiotics industry began to appreciate bacteria s beneficial characteristics and exploit selected strains as starters for both food fermentations and aroma enzyme and texturing agent production However it was only at the end of the 20th century that the probiotic potential of some bacteria such as lactic acid bacteria and bifidobacteria was fully recognized Very recently apart from the probiotic activity of in toto bacteria attention has begun to be directed to the chemical mediators of the probiotic effect Thanks also to the improvement of techniques such as transcriptomics proteomics and metabolomics several bioactive compounds are continuously being discovered Bioactive molecules produced by bacteria yeasts and virus infected cells proved to be important for improving or impairing human health The most important result of last years research concerns the discovery that a very complex network of signals allows communication between organisms from intra species interactions to inter kingdom signaling Based on these findings a completely new approach has arisen the system biology standpoint Actually the different organisms colonizing a certain environmental niche are not merely interacting with each other as individuals but should be considered as a whole complex ecosystem continuously exchanging information at the molecular level In this context this topic issue explores both antagonistic compounds i e antibiotics and multiple function cooperative molecules improving the physiological status of both stimulators and targets of this network

From the applicative viewpoint these molecules could be hopefully exploited to develop new pharmaceuticals and or nutraceuticals for improving human health Science Biology ,2025 **Topical Science Biology** ,2016 *Multiple Choice Biology* Cecilia Mayhew Wheeler,Michael Ridgway Carr,1972 **Biology Question Book Volume 1: Study Design Questions** Sahil Bhatia,Gaia Charan,Cindy Zeng,Rachel Chen,2021-11-25 **Higher-level Thinking Questions** Angela Manzi,Michael Michels,2021 Year 12 Biology Questions V. M. Stewart,1988-01-01

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