

Practical Task Term 1: Biosphere to ecosystems

Date: _____

Name: _____

Total	
	30

Duration: 45 minutes

INSTRUCTIONS AND INFORMATION**Read the following instructions carefully before answering the questions.**

1. This is a formal SBA task and must be done under supervised conditions in the classroom.
2. Each learner completes this task on his/her own (under test conditions).
3. Present the answers according to the instructions of each question.
4. Draw all diagrams in pencil and labels in blue ink.
5. The diagrams in the question paper may NOT be drawn to scale.

BACKGROUND INFORMATION

The biosphere is the thin layer of land, air and water around the earth's surface that supports life. The abiotic, or non-living, portion of each ecosystem in the biosphere includes the flow of energy, nutrients, water, and gases and the concentrations of organic and inorganic substances in the environment. The biotic, or living, portion includes organisms based on their methods of acquiring energy: the primary producers, largely green plants; the consumers, which include all the animals; and the decomposers, which include the microorganisms that break down the remains of plants and animals into simpler components for recycling in the biosphere.

Ecological pyramids are a graphical representation in the shape of a pyramid to show the feeding relationship of groups of organisms, and the flow of energy or biomass through the different trophic levels in a given ecosystem.

QUESTION 1: Abiotic factors

Grade 10 learners carried out an investigation to determine the water content,

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Anthony S. Fauci



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Anderman, 2015-07-06 The third edition of the Handbook of Educational Psychology is sponsored by Division 15 of the American Psychological Association In this volume thirty chapters address new developments in theory and research methods while honoring the legacy of the field s past A diverse group of recognized scholars within and outside the U S provide integrative reviews and critical syntheses of developments in the substantive areas of psychological inquiry in education functional processes for learning learner readiness and development building knowledge and subject matter expertise and the learning and task environment New chapters in this edition cover topics such as learning sciences research latent variable models data analytics neuropsychology relations between emotion motivation and volition EMOVO scientific literacy sociocultural perspectives on learning dialogic instruction and networked learning Expanded treatment has been given to relevant individual differences underlying processes and new research on subject matter acquisition The Handbook of Educational Psychology Third Edition provides an indispensable reference volume for scholars in education and the learning sciences broadly conceived as well as for teacher educators practicing teachers policy makers and the academic libraries serving these audiences It is also appropriate for graduate level courses in educational psychology human learning and motivation the learning sciences and psychological research methods in education and psychology **Pedagogies of**

Biomedical Science Donna Johnson, 2024-05-31 This book confronts the continually evolving nature of biomedical science education by providing a robust account of learning pedagogies and best practice for scholars and researchers in the field Rather than considering subdisciplines of biomedical science education separately the volume takes a holistic approach and considers the complexities of teaching biomedical science as a whole providing a nuanced overview of how a particular

practice fits in such a course overall as well as providing support for development within the reader's own subdiscipline. Ultimately, this holistic approach allows for expansive discussion of relevant pedagogical approaches that will directly inform innovations in the contemporary teaching of biomedical science education. Novel in approach and underpinned by the latest in research innovations, this book will appeal to scholars, researchers, and postgraduate students in the fields of medical education, higher education, and curriculum studies. Policy makers involved with health education and promotion, as well as educational research, will also benefit from the volume.

Highlights in elite sports and performance enhancement: 2021/22
Kazushige Goto, Gustavo R. Mota, Stéphane Bermon, 2023-03-30

Dairy Production and Processing John R. Campbell, Robert T. Marshall, 2016-01-29. A productive dairy industry is vital to providing safe, high-quality milk that fulfills the nutritional needs of people of all ages around the world. In order to achieve that goal, Campbell and Marshall present a timely, lucid, and comprehensive look at today's dairy industry. *Dairy Production and Processing* offers not only a fundamental understanding of dairy animals, dairy products, and the production aspects of each, but also a wealth of applied information on the scope of the current milk and milk products industry. The application of basic sciences and technologies throughout the text will serve students well, not only as they learn the first principles of dairy science, but also as a professional reference in their careers. Study questions can be found at the conclusion of each chapter, along with relevant and informative websites. An extensive glossary is provided to enable readers to expand their knowledge of selected terms. Topics found in this instructive and insightful text include an overview of the dairy industry, dairy herd breeding and records, the feeding and care of dairy cattle, sheep, goats, and water buffalo, important principles of milking and milking facilities, dairy farm management, milk quality and safety, and the production of milk and milk products.

Children and Companion Animals: Psychosocial, Medical, and Neurobiological Implications Andrea M. Beetz, Lynette A. Hart, Brinda I. Jegatheesan, Naoko Koda, 2018-08-16. Children and companion animals seem to have a natural affinity towards each other. Most children desire a relationship with their own companion animals or at least demonstrate an interest to interact with animals in general. Living with companion animals or interacting with animals may have psychosocial, neurobiological, or medically relevant effects on typically developing children and juveniles, as well as those with diverse and special needs. In this eBook, we present several articles addressing the relationships between children, juveniles, and animals in different countries, including Austria, Germany, Jamaica, Japan, the United Kingdom, and the United States. Three articles discuss approaches in animal-assisted education, including animal keeping and animal-assisted interventions in schools, and an experimental study investigating immediate effects of dogs on reading competence and accompanying stress reactions with cortisol and behavior. Other articles address topics involving children and their companion animals, including dog walking by children and juveniles, risks of dog bites by the family dog, selection of pet dogs for families with a child with autism spectrum disorder (ASD), and the relationships that children with ASD have with their family cats. The interactions between children, juveniles, and animals addressed in this eBook provide new

insights into some scarcely investigated themes and underline the significance of animals in children s lives Scientific American ,1918 **The Fruit-grower** ,1916 The Church Times ,1904 **The Fruit Grower and Farmer** ,1916

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