

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,

2014 September Lifescience Memorandum

**Michael R. Barratt, Ellen S. Baker, Sam
L. Pool**

2014 September Lifescience Memorandum:

Farmers and Fresh Water United States. Congress. Senate. Committee on Agriculture, Nutrition, and Forestry, 2015

Strengthening the Disaster Resilience of the Academic Biomedical Research Community National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Health and Medicine Division, Institute for Laboratory Animal Research, Board on Earth Sciences and Resources, Board on Health Sciences Policy, Committee on Strengthening the Disaster Resilience of Academic Research Communities, 2017-11-20 The academic biomedical research community is a hub of employment economic productivity and scientific progress Academic research institutions are drivers of economic development in their local and state economies and by extension the national economy Beyond the economic input that the academic biomedical research community both receives and provides it generates knowledge that in turn affects society in myriad ways The United States has experienced and continues to face the threat of disasters and like all entities the academic biomedical research community can be affected Recent disasters from hurricanes to cyber attacks and their consequences have shown that the investments of the federal government and of the many other entities that sponsor academic research are not uniformly secure First and foremost events that damage biomedical laboratories and the institutions that house them can have impacts on the safety and well being of humans and research animals Furthermore disasters can affect career trajectories scientific progress and financial stability at the individual and institutional levels Strengthening the Disaster Resilience of the Academic Biomedical Research Community offers recommendations and guidance to enhance the disaster resilience of the academic biomedical research community with a special focus on the potential actions researchers academic research institutions and research sponsors can take to mitigate the impact of future disasters

International Conference for Innovation in Biomedical Engineering and Life Sciences Fatimah Ibrahim, Juliana Usman, Mas Sahidayana Mohktar, Mohd Yazed Ahmad, 2015-11-26 This volume presents the proceedings of ICIBEL 2015 organized by the Centre for Innovation in Medical Engineering CIME under Innovative Technology Research Cluster University of Malaya It was held in Kuala Lumpur Malaysia from 6-8 December 2015 The ICIBEL 2015 conference promotes the latest researches and developments related to the integration of the Engineering technology in medical fields and life sciences This includes the latest innovations research trends and concerns challenges and adopted solution in the field of medical engineering and life sciences

William Watson Cheyne and the Advancement of Bacteriology Charles DePaolo, 2016-09-29 William Watson Cheyne 1852-1932 a surgeon by training and a student of Joseph Lister was a prominent British bacteriologist who published 60 papers and 13 monographs from 1879 to 1927 A proponent of the idea that bacteriology and medicine were interdependent disciplines he investigated the causes and treatment of wound infections tuberculosis cholera tetanus and gangrene In 1897 he organized an historical outline of 19th century bacteriology in five landmark periods of discovery each defined by the work of an influential figure This study documents his contributions to the

history of microbiology and describes his activities as a laboratory investigator clinician surgeon translator editor and educator

Convergence National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Key Challenge Areas for Convergence and Health, 2014-06-16 Convergence of the life sciences with fields including physical chemical mathematical computational engineering and social sciences is a key strategy to tackle complex challenges and achieve new and innovative solutions However institutions face a lack of guidance on how to establish effective programs what challenges they are likely to encounter and what strategies other organizations have used to address the issues that arise This advice is needed to harness the excitement generated by the concept of convergence and channel it into the policies structures and networks that will enable it to realize its goals Convergence investigates examples of organizations that have established mechanisms to support convergent research This report discusses details of current programs how organizations have chosen to measure success and what has worked and not worked in varied settings The report summarizes the lessons learned and provides organizations with strategies to tackle practical needs and implementation challenges in areas such as infrastructure student education and training faculty advancement and inter institutional partnerships

NASA Technical Memorandum ,1988 Department of Defense's Challenges in Accounting for Missing Persons from Past Conflicts United States. Congress. House. Committee on Armed Services. Subcommittee on Military Personnel, 2013

De dokter en het geld Marcel Levi, 2017-12-09 Wonderlijk de ambtenaren van VWS en de managers bij de zorgverzekeraars delibereren bij voortduring over slimme aanpassingen op de deelbudgetten voor de zorg Artsen daarentegen schuiven maar heel incidenteel aan voor overleg over wat toch hun core business is Dat zou wel eens een kostbare weeffout in het maatschappelijke systeem kunnen zijn Dokters hebben misschien de reputatie dat zorgbudgetten nooit hoog genoeg kunnen zijn En het is juist dat ze liefst het onderste uit de kan willen halen om hun patiënten te genezen Maar het zijn ook realisten Niet alles moet wat kan En als ze pleiten voor verhoging van het ene deelbudget dan komen ze als zorgexperts beslist ook met een reële verlaging van een andere kostenpost In dit boek 28 auteurs met onbetwistbare geneeskundige en evenzeer bedrijfs economische expertise met concrete voorstellen tot verschuivingen in zorgbudgetten met alternatieven die per saldo geen extra geld kosten Het debat hierover wordt vergemakkelijkt doordat elk hoofdstuk opent met een duidelijke stelling

Macroeconomic Forces Transforming Economies in Africa YaAshe M. Bulama, Tophie Joseph Akeerebari, Ayilla V.N, Tafuteni Chusi, Ndanu Musyoka, 2023-11-22 TOPICS IN THE BOOK Test of Price Volatility A Case of the Nigerian Cattle Market Effect of Insufficient Currency in Circulation on the Rate of Inflation and Unemployment in Nigeria The Buhari's Administration Experience Technical Efficiency of Turmeric Curcuma Longa L Production in Benue State Nigeria Community Awareness of the Investment Opportunities in Dar es Salaam Stock Exchange Real Interest Rate Inflation Exchange Rate Competitiveness and Foreign Direct Investment in Kenya

Principles of Clinical Medicine for Space Flight Michael R. Barratt, Ellen S. Baker, Sam L. Pool, 2020-01-02 In its first edition Principles

of Clinical Medicine for Space Flight established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers. It received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine Certifying Examination under the American Board of Preventive Medicine. In the intervening few years the continuous manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space. The Second Edition incorporates this information. Gaps in the first edition will be addressed with the addition of new and revised chapters. This edition is extensively peer reviewed and represents the most up to date knowledge.

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