

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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Jiyuan Zhang



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Research Handbook on Intellectual Property and the Life Sciences Duncan Matthews, Herbert Zech, 2017-06-30

Intellectual property IP is a key component of the life sciences one of the most dynamic and innovative fields of technology today At the same time the relationship between IP and the life sciences raises new public policy dilemmas The Research Handbook on Intellectual Property and the Life Sciences comprises contributions by leading experts from academia and industry to provide in depth analyses of key topics including pharmaceuticals diagnostics and genes plant innovations stem cells the role of competition law and access to medicines The Research Handbook focuses on the relationship between IP and the life sciences in Europe and the United States complemented by country specific case studies on Australia Brazil China India Japan Kenya South Africa and Thailand to provide a truly international perspective The metabolic pathways and environmental controls of hydrocarbon biodegradation in marine ecosystems Joel E. Kostka, Andreas P. Teske, Samantha B. Joye, Ian Head, 2015-05-15 Biodegradation mediated by indigenous microbial communities is the ultimate fate of the majority of oil hydrocarbon that enters the marine environment The aim of this Research Topic is to highlight recent advances in our knowledge of the pathways and controls of microbially catalyzed hydrocarbon degradation in marine ecosystems with emphasis on the response of microbial communities to the Deepwater Horizon oil spill in the Gulf of Mexico In this Research Topic we encouraged original research and reviews on the ecology of hydrocarbon degrading bacteria the rates and mechanisms of biodegradation and the bioremediation of discharged oil under situ as well as near in situ conditions

White Paper on Science and Technology, 2015 Understanding West Africa's Ebola Epidemic Ibrahim

Abdullah, Ismail Rashid, 2017-10-15 From 2013 to 2015 over 11 000 people across West Africa lost their lives to the deadliest outbreak of the Ebola virus in history Crucially this epidemic marked the first time the virus was able to spread beyond rural areas to major cities overturning conventional assumptions about its epidemiology With backgrounds ranging from development to disease control the contributors to this volume some of them based in countries affected by the Ebola epidemic consider the underlying factors that shaped this unprecedented outbreak While championing the heroic efforts of local communities and aid workers in halting the spread of the disease the contributors also reveal deep structural problems in both the countries and humanitarian agencies involved which hampered the efforts to contain the epidemic Alarming they show that little has been learned from these events with health provision remaining underfunded and poorly equipped to deal with future outbreaks Such issues they argue reflect the wider challenges we face in tackling epidemic disease in an increasingly interconnected world Intellectual Property Issues in Life Sciences Chetan Keswani, Cristina Possas, 2024-11-15 Intellectual Property Issues in Life Sciences Disputes and Controversies highlights emerging legal social and regulatory issues pertaining to various areas of life sciences Patents occupy a prominent position in the innovation systems in the life sciences but to what extent they support or hinder innovation is widely disputed Life science is a broad

subject including agriculture ecology microbiology plant and animal sciences health and diseases biotechnology etc However despite the broad applications of biotechnology and molecular biology techniques profits on investments are surprisingly low Thus it is vitally important for universities public research organizations and private enterprises to protect their innovations There are vast differences of opinion on patentability of living organisms which are largely barred from patent protection However mind sets are rapidly shifting and IP issues in life sciences are receiving increasing attention To compete with progressive bio based economies the developing countries are amending their IP laws to encourage investment An effort has been made to avoid considering policy in isolation but rather to emphasize the interplay between the policy mix the wider institutional setting market forces and system organization solutions Both empirical and conceptual chapters are included to bring them together and to yield facts and interpretations for the readers This book presents expert opinions by frontier academicians researchers and attorneys on the recent challenges in the rapidly evolving life science industry The present book offers comprehensive knowledge on the contemporary issues in life sciences to a wide range of audiences including students scholars researchers legal practitioners policymakers and others interested in emerging intellectual property issues Features The only compilation available on the contemporary intellectual property issues in life sciences in the post COVID era Focuses on the commercial regulatory bioethical and socio legal implications of patents in life sciences Describes an integrated approach for sustained innovations in various areas of life sciences Discusses the recent IP controversies in a pan global context Presents viewpoints to front line practitioners viz attorneys researchers etc

Rethinking Research

Methods in an Age of Digital Journalism Michael Karlsson,Helle Sjøvaag,2018-10-18 The digital infrastructure of media production dissemination and consumption is becoming increasingly complex presenting the challenge of how we should research the digital journalism environment Digital journalism takes many forms we therefore need to revise improve adjust and even invent methods to understand emerging forms of journalism In this book scholars at the forefront of methodological innovations in digital journalism research share their insights on how to collect process and analyse the diverse expressions of digital journalism including online news search results hyperlinks and social media posts As digital journalism content often comes in the form of big data many of these new approaches depart from the traditional methods used in media research in significant ways As we move towards new ways of understanding digital journalism the methods developed for such purposes also need to be grounded in scientific rigour This book aims to share some of the emerging processes by which these methods tools and approaches are designed implemented and validated As such this book not only constitutes a benchmark for thinking about research methods in digital journalism it also provides an entry point for graduate students and seasoned scholars aiming to do research on digital journalism This book was originally published as a special issue of Digital Journalism

Food Security and the Modernisation Pathway in China Marie-Hélène Schwoob,2018-01-26 This book aims at providing students experts and practitioners with a detailed overview of agricultural and food security issues in

China analyzed through the lenses of a multidisciplinary approach that enables to fully grasp the current socio political challenges and lock ins of agricultural transformation towards more sustainable practices Confronted to a running decrease and degradation of its resources and rapidly evolving food habits China became a net importer of food in 2004 and its agricultural balance has since become heavier every day Beyond providing a comprehensive overview of these stakes this book also presents consistent and original first hand research material collected by the author during months of fieldwork in China in the countryside and from various economic and political circles Conclusions drawn from this often difficult to access fieldwork shed light on the whole galaxy of public and private stakeholders taking part in agricultural modernization in China on their interests and on the patterns of power that underlie the development and implementation of agricultural policies

Pharmaceutical Industry and Public Policy in Post-reform India Reji K. Joseph, 2015-07-24 This book examines the impact of economic reforms in India on the pharmaceutical industry and access to medicines It traces the changing production and trade pattern of the industry research and development R D preferences and strategies of Indian pharmaceutical firms patent system alongside pricing policy measures and their shortcomings It also analyses the public health financing system in India driven largely by out of pocket expenditure about 60 per cent and characterised by very high share of medicines in total health expenditure A masterful insight into a topical area the work will be indispensable to those working on pharmaceutical industry and public policy It will be of interest to researchers scholars students and policy makers of economics industrial policy public policy intellectual property rights and health financing

The Horn Engaging the Gulf Aleksi Ylönen, 2023-12-28 This book discusses theoretical perspectives of analyzing the relations between the states and non state actors in the Horn of Africa and their counterparts in the Persian Gulf and the Middle East Crucially these relations are examined primarily from the perspective of the diplomatic economic and strategic agency of the African states and societal actors Here domestic political dynamics and local power play a significant role Aleksi Ylönen provides a historically informed investigation of recent relations that involve the Gulf States and Türkiye's resurgent interest in the Horn of Africa The analysis focuses on the post Arab Spring period following the Iran nuclear deal and the war in Yemen Featuring case studies from Ethiopia Somalia and Eritrea which highlight engagements of the Horn state and societal actors primarily with the Gulf States and Türkiye the study provides an empirical analysis of the interactions and connections between the two regions

Bulletin of the National Museum of Nature and Science ,2014 **Ibadan Journal of the Social Sciences** ,2012
Britannica Book of the Year ,2015 *Mines and Minerals* ,1890 **The Publisher** ,1911 British Books ,1911
The Publishers' Circular and Booksellers' Record ,1919 **Publishers' Circular and Booksellers' Record of British and Foreign Literature** ,1913 **Religious Periodicals Index** ,1970 **The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces** ,1893 **Experimental Wireless & the Wireless Engineer** ,1945

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