

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,

Science Past

John L. Heilbron



Science Past:

Things not generally known. Curiosities of science, past and present ... Fourth edition. Ninth thousand John TIMBS, 1869

Ghosts of Science Past Joseph Sieracki, Jesse Lonergan, 2022-06-28 A teenager desperate to pass his Biology final is visited in the night Christmas Carol style by the spirits of some of the greatest scientists in history **Curiosities of Science, Past and Present** John Timbs, 1869 **Climate Change, Climate Science and Economics** G. Cornelis van Kooten, 2012-08-30 This volume enables readers to understand the complexity associated with climate change policy and the science behind it For example the author describes the criticism and defense of the widely known hockey stick temperature graph derived from combining instrumental data and proxy temperature indications using tree ring ice core and other paleoclimatic data Readers will also learn that global warming cannot easily be avoided by reducing CO2 and other greenhouse gas emissions in rich countries Not only is emissions reduction extremely difficult in rich countries but demands such as the UN mandate to improve the lives of the poorest global citizens cannot be satisfied without significantly increasing global energy use and CO2 emissions Therefore the author asserts that climate engineering and adaptation are preferable to mitigation particularly since the science is less than adequate for making firm statements about the Earth's future climate Readers will also learn that global warming cannot easily be avoided by reducing CO2 and other greenhouse gas emissions in rich countries Not only is emissions reduction extremely difficult in rich countries but demands such as the UN mandate to improve the lives of the poorest global citizens cannot be satisfied without significantly increasing global energy use and CO2 emissions Therefore the author asserts that climate engineering and adaptation are preferable to mitigation particularly since the science is less than adequate for making firm statements about the Earth's future climate *Science, Technology, and Society* Sal P. Restivo, 2005 Emphasizing an interdisciplinary and international coverage of the functions and effects of science and technology in society and culture Science Technology and Society B contains over 130 A to Z signed articles written by major scholars and experts from academic and scientific institutions and institutes worldwide Each article is accompanied by a selected bibliography Other features include extensive cross referencing throughout a directory of contributors and an extensive topical index Women's Experiences in Leadership in K-16 Science Education Communities, Becoming and Being Katherine C. Wieseman, Molly Weinburgh, 2009-06-18 A discourse on women's leadership within science education has until now been largely invisible in book form This therefore is the first book to address women's leadership within science education The book embraces relational ways of knowing as a foundation for leadership and takes courageous steps by exposing our innermost tensions dilemmas and feelings about leadership making them available to others The power promise of feminine approaches to transform traditional leadership cultures is also addressed The authors believe that anyone can lead regardless of position title years of experience or age They also believe that each of us has a responsibility to provide some leadership and direction for the shared endeavours of which we are part The purpose of the book is to inspire

and guide educators and academics in K 16 science education as well as individuals in other professions as their leadership skills develop The leadership activities provided offer guidance and or concrete ways to delve into issues of leadership

Science and National Consciousness in Bengal J. Lourdasamy,2004 This book gives a flavour of the Indian response to modern science by analysing the lives and careers of four scientifically influential personalities in Bengal His analysis of the careers of two scientists J C Bose and P C Ray and two institution builders Mahendralal Sircar and Asutosh Mookerjee brings to light the issues related to science at a time of colonialism and nationalism Scientists often had to depend on British institutions for legitimation and funding while also supporting the nationalist cause for greater autonomy One of the central claims of this book is that the protagonists aimed to contribute to a modern world science one based on a strong sense of universalism They did not aim to construct any alternative sciences though they did express and apply their work by drawing on their cultural heritage This makes *Science and National Consciousness* a work of particular relevance today when a homogenous instrumentalist and totally Western conception of science is being globally accepted *Science* Patricia Fara,2010-02-11 *Science A Four Thousand Year History* rewrites science s past Instead of focussing on difficult experiments and abstract theories Patricia Fara shows how science has always belonged to the practical world of war politics and business Rather than glorifying scientists as idealized heroes she tells true stories about real people men and some women who needed to earn their living who made mistakes and who trampled down their rivals in their quest for success Fara sweeps through the centuries from ancient Babylon right up to the latest hi tech experiments in genetics and particle physics illuminating the financial interests imperial ambitions and publishing enterprises that have made science the powerful global phenomenon that it is today She also ranges internationally illustrating the importance of scientific projects based around the world from China to the Islamic empire as well as the more familiar tale of science in Europe from Copernicus to Charles Darwin and beyond Above all this four thousand year history challenges scientific supremacy arguing controversially that science is successful not because it is always right but because people have said that it is right **John Wilkins 1614-1672** Barbara J. Shapiro,2023-04-28 This title is part of UC Press s *Voices Revived* program which commemorates University of California Press s mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 *Voices Revived* makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1969 *Archaeological Science* Michael P. Richards,Kate Britton,2020-01-16 An accessible and wide ranging introduction to the exciting and expanding field of archaeological science for students professionals and academics **Inventing Temperature** Hasok Chang,2004-08-05 What is temperature and how can we measure it correctly These may seem like simple questions but the most renowned scientists struggled with them throughout the 18th and 19th centuries In *Inventing Temperature* Chang examines how scientists first created thermometers how they measured temperature beyond the reach of standard thermometers and how they managed to assess the reliability

and accuracy of these instruments without a circular reliance on the instruments themselves In a discussion that brings together the history of science with the philosophy of science Chang presents the simple yet challenging epistemic and technical questions about these instruments and the complex web of abstract philosophical issues surrounding them Chang's book shows that many items of knowledge that we take for granted now are in fact spectacular achievements obtained only after a great deal of innovative thinking painstaking experiments bold conjectures and controversy Lurking behind these achievements are some very important philosophical questions about how and when people accept the authority of science

The Historiography of Contemporary Science and Technology Thomas Söderquist,2013-01-11 More than ninety percent of all scientific history has been made during the last half century So far however only a fraction of historical scholarship has dealt with this period Merely a decade ago most scientific historians considered recent science the scientific culture created lived and remembered by contemporary scientists an area of study best left to the historical actors themselves

The Industry, Science, & Art of the Age, Or The International Exhibition of 1862 Popularly Described from Its Origin to Its Close, Including Details of the Principal Objects and Articles Exhibited by John Timbs John Timbs,1863

Understanding Research, Science and Technology Parks National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,Committee on Comparative Innovation Policy: Best Practice for the 21st Century,2009-10-08 Many nations are currently adopting a variety of directed strategies to launch and support research parks often with significant financial commitments and policy support By better understanding how research parks of other nations operate we can seek to improve the scale and contributions of parks in the U S To that end the National Academies convened an international conference on global best practices in research parks This volume a report of the conference includes discussion of the diverse roles that research parks in both universities and laboratories play in national innovation systems The presentations identify common challenges and demonstrate substantial differences in research park programs around the world

The Philosophy of Social Science Garry Potter,2016-12-13 Now in its second edition this comprehensive textbook offers an exceptionally accessible yet in depth introduction to the philosophy of social science Students with no previous knowledge will find themselves taken on an engaging philosophical journey the book's unique dialogue format anticipates their most frequently asked questions and provides clear explanations of specialised terminology and essential contextualisation of contemporary debates Encompassing both traditional and contemporary perspectives the book explores the questions and debates raised by all the major theoretical positions in the philosophy of social science including positivism empiricism rationalism hermeneutics feminist epistemology postmodernism and critical realism The first edition of this book had a Eurocentric bias as does virtually all other textbooks covering this subject matter This has been corrected in the second edition and includes a new chapter on the contributions of Islam to philosophy natural science social science including sociology The second edition also has a newly written chapter on pragmatism and neo pragmatism as well as

strengthened coverage of hermeneutics postmodernism and critical realism The book s rich pedagogic support includes point by point summaries introducing the scope of every chapter discussion questions further reading lists and a glossary of key terminology This excellent textbook is designed to provide every student with a clear understanding of important and complex issues It is essential reading for all students of philosophy of social science whether at undergraduate or Masters level and regardless of their disciplinary background

Socioeconomic Environmental Policies and Evaluations in Regional Science Hiroyuki Shibusawa,Katsuhiko Sakurai,Takeshi Mizunoya,Susumu Uchida,2016-09-07 This book is a volume of essays celebrating the life and work of Yoshiro Higano professor of Environmental Policy Doctoral Program in Sustainable Environmental Studies Graduate School of Life and Environmental Sciences University of Tsukuba Japan Prof Higano s research strongly focuses on the comprehensive evaluation of resources and research content for decision science and engineering including simulation modeling for environmental quality control the evaluation of environmental remediation technologies integrated river lake basin management and synthesized environmental policy Yoshiro Higano is the past president of the Regional Science Association International RSAI and the current president of the Japan Section of the RSAI JSRSAI He also served as executive secretary for the Pacific Regional Science Conference Organizations PRSCO This edited volume covers a wide range of regional science approaches theory policy evaluation modeling simulation and practice It is a valuable reference work for researchers scholars policy makers and students in the field of regional science The volume celebrates Prof Higano s contributions to the JSRSAI PRSCO and RSAI Essay contributors include his former students and a wide array of regional scientists each with a personal connection to Prof Higano

The Oxford Companion to the History of Modern Science John L. Heilbron,2003-02-14 Containing 609 encyclopedic articles written by more than 200 prominent scholars The Oxford Companion to the History of Modern Science presents an unparalleled history of the field invaluable to anyone with an interest in the technology ideas discoveries and learned institutions that have shaped our world over the past five centuries Focusing on the period from the Renaissance to the early twenty first century the articles cover all disciplines Biology Alchemy Behaviorism historical periods the Scientific Revolution World War II the Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies Observation and Experiment Darwinism Coverage is international tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non Western societies has modified or contributed to the dominant global science as it is currently understood Revealing the interplay between science and the wider culture the Companion includes entries on topics such as minority groups art religion and science s practical applications One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included Above all The Oxford Companion to the History of Modern Science is a companion to world history modern in coverage generous in breadth and cosmopolitan in scope The volume s utility is enhanced by a thematic outline of the entire contents a thorough system of cross referencing and a

detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points Each essay has numerous suggestions for further reading all of which favor literature that is accessible to the general reader and a bibliographical essay provides a general overview of the scholarship in the field Lastly as a contribution to the visual appeal of the Companion over 100 black and white illustrations and an eight page color section capture the eye and spark the imagination

Victorian Science and Literature, Part II vol 6 Gowan Dawson, Bernard Lightman, Claire Brock, Marwa Elshakry, Sujit Sivasundaram, Ralph O'Connor, Roger Luckhurst, Justin Sausman, 2024-10-28 This eight volume reset edition in two parts collects rare primary sources on Victorian science literature and culture The sources cover both scientific writing that has an aesthetic component what might be called the literature of science and more overtly literary texts that deal with scientific matters

Future-Proof Science Peter Vickers, 2023 This is the first book to explore how to identify future proof science Peter Vickers takes a transdisciplinary approach in his analysis of scientific fact in order to defend science against potentially dangerous scepticism

Cases on Inquiry through Instructional Technology in Math and Science Lennex, Lesia, Nettleton, Kimberly Fletcher, 2012-01-31 There exists a wealth of information about inquiry and about science technology engineering and mathematics STEM but current research lacks meaningfully written thoughtful applications of both topics Cases on Inquiry through Instructional Technology in Math and Science represents the work of many authors toward meaningful discourse of inquiry used in STEM teaching This book presents insightful information to teachers and teacher education candidates about using inquiry in the real classroom case studies from which research suggests appropriate uses and tangible direction for creating their own inquiry based STEM activities Sections take the reader logically through the meaning of inquiry in STEM teaching how to use technology in modern classrooms STEM projects which successfully integrate inquiry methodology and inquiry problem solving within STEM classrooms with the aim of creating activities and models useful for real world classrooms

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web er model describes data in terms of entities and entity sets objects relationships and relationship sets connections between objects attributes properties that characterize or describe entities or relationships entities and attributes example entity sets

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web er data models er data models design a whole database using entities and relationships remember this is not a relational data model so a relationship is not necessarily a relation we will use pictures to demonstrate the full database model

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web connectivity the classification of the relationship between entities classifications include 1 1 1 m and m n derived attribute an attribute that does not physically exist within the entity and is derived via an algorithm for example the age attribute might be derived by subtracting the birth date from the current date existence dependent

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web the entity relationship model entity relationship schema describes data requirements for a new information system direct easy to understand graphical notation translates readily to relational schema for database design but more abstract than relational schema e g can represent an entity without knowing its properties

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web ianwheeler93 entity relationship model erm forms the basis of an er diagram entity relationship diagram erd represents conceptual database as viewed by end user entities attributes and relationships corresponds to a table and not to a row in relational environment in chen and crow s foot models represented by rectangle with name

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