

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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Social Entrepreneurship in the Middle East Dima Jamali, Alessandro Lanteri, 2016-04-29 This two volume book unveils trends strengths weaknesses and overall dynamics and implications of social entrepreneurship in the Middle East region whilst identifying both opportunities and threats facing social entrepreneurship and supplements through a wealth of insights and examples inspired from practice and current applications

New Paradigms in Ergonomics Neville A. Stanton, Paul M. Salmon, Guy Walker, 2020-04-28 The systems in which we work continue to evolve creating emergent problems and often strengthening intractable issues In order to remain relevant and impactful the discipline of ergonomics needs its paradigms to evolve too The aim of this book is to provide researchers and practitioners with new paradigms in the form of ideas concepts theories methods practices and values The chapters take the reader on a journey through underlying theories new ways to apply those theories and emerging domains in which ergonomics is expected to play a greater role Readers of this book will be inspired by these new paradigms in ergonomics and seek to push the boundaries even further The lifeblood of the science depends on continual evolution and developments to take on the challenges we face in complex sociotechnical systems design and evaluation Perhaps the most significant take home message from this book is the demonstration of how theory maps onto practice As such the only remaining paradigm shift is for these ideas concepts methods and practices to be taken up more widely and the discipline advanced until the next paradigm shift occurs The chapters were originally published as a special issue in the journal Ergonomics

Future Spacecraft Propulsion Systems and Integration Paul A. Czysz, Claudio Bruno, Bernd Chudoba, 2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike

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 *AIIMS Annual Report* All-India Institute of Medical Sciences,2014 Beyond the Skills Gap Matthew T. Hora,2019-01-02 2018 Frederic W Ness Book Award AAC U How can educators ensure that young people who attain a postsecondary credential are adequately prepared for the future Matthew T Hora and his colleagues explain that the answer is not simply that students need more specialized technical training to meet narrowly defined employment opportunities Beyond the Skills Gap challenges this conception of the skills gap highlighting instead the value of broader twenty first century skills in postsecondary education They advocate for a system in which employers share responsibility along with the education sector to serve the collective needs of the economy society and students Drawing on interviews with educators in two and four year institutions and employers in the manufacturing and biotechnology sectors the authors demonstrate the critical importance of habits of mind such as problem solving teamwork and communication They go on to show how faculty and program administrators can create active learning experiences that develop students skills across a range of domains The book includes in depth descriptions of eight educators whose classrooms exemplify the effort to blend technical learning with the cultivation of twenty first century habits of mind The study set in Wisconsin takes place against the backdrop of heated political debates over the role of public higher education This thoughtful and nuanced account enriched by keen observations of postsecondary instructional practice promises to contribute new insights to the rich literature on workforce development and to provide valuable guidance for postsecondary faculty and administrators **The Politics of Digital India** Pradip Ninan Thomas,2019-07-11 Transforming India into a digital state has been an objective of successive governments in India However the digital by its very nature is a capricious multi dimensional entity Its operationalization across multiple sectors in India has highlighted the fact that the digital compact with publics in India is a two edged sword On the one hand devices such as mobile phones have enabled access and efficiencies and on the other they have increased the scope for surveillance capitalism and the expansion of governmentality The digital is at the same time a resource commodity and process that is absolutely fundamental to most if not all productive forces across multiple sectors As a part of the Media Dynamics in South Asia series this volume explores the making of digital India and specifically deals with the contradictions of an imperfect democracy internal compulsions and external pressures that continue to play crucial roles in the shaping of the same Mindful of the key roles played by political economy and context and based on conversations with theory and practice it makes a case for critical understanding of the digital embrace in India **Science & Technology Review** ,2014 **Space Station Systems** ,1986 **White Paper on Science and Technology** ,2015 **International Journal of Comparative and Applied Criminal Justice** ,2016 **The Athenaeum** ,1894 Chemical News ,1870 **The Chemical News** ,1870 The Publishers' Circular and Booksellers' Record ,1911

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of Physical Science ,1870 **British Medical Journal** ,1888 *Physician's Who's Who, New York State Section*
Frederick Strange Koller,1913

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certain proportion of neutrons and protons otherwise it undergoes a series of disintegrations to reach a stable state by removing excess particles

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