

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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NASA Technical Memorandum ,1963 *NASA Technical Paper* ,1979 *Advancing Sustainable Science and Technology for a Resilient Future* Sai Kiran Oruganti,Dimitrios A Karras,Srinesh Singh Thakur,2024-07-01 The Industrial Internet of Things IIoT has become an effective tool with significant implications for industrialisation and Market Research MR especially in the field of green production Green IIoT GRIIoT can be used to implement Green Production GP goals for the environment The purpose of this study is to examine the drivers behind the adoption of GIIoT MR and industrialization decision making as well as the effects these drivers have on industrialization performance IP A structured questionnaire was used to gather information in order to evaluate the suggested study paradigm The results indicate that institutional isomorphism influences the acceptance of GRIIoT in a favorable way Furthermore Green innovation GI activities that result in IP are favorably correlated with GIIoT The potential effects of the various institutional isomorphisms discussed in this study can aid organizations in better understanding the responsibilities to protect and satisfying stakeholders particularly as the adopt GIIoT to handle production problems and possible accordance pressures in the process **A Critical Review of the Life Sciences Project Manmagement at Ames Research Center for the Spacelab Mission Development Test III** United States. National Aeronautics and Space Administration. Scientific and Technical Information Office,1979 **EES Memo** ,1949 *A Critical Review of the Life Sciences Project Management at Ames Research Center for the Spacelab Mission Development Test 3* ,1979 *Life in Space* Maura Phillips Mackowski,2022-05-24 This book explores the many aspects and outcomes of NASA s research in life sciences a little understood endeavor that has often been overlooked in histories of the space agency **Scientific and Technical Aerospace Reports** ,1991 **Resources in Education** ,2000-04 **Technical Abstract Bulletin** ,1982 **Research in Education** ,1973 *Bulletin of the Atomic Scientists* ,1967-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Assessment Approaches to Support Bycatch Management for Marine Mammals** Tessa Francis,Jeff Moore,Andre Eric Punt,Randall Reeves,2022-06-21 *Review and Assessment of Planetary Protection Policy Development Processes* National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Space Studies Board,Committee on the Review of Planetary Protection Policy Development Processes,2018-10-17 Protecting Earth s environment and other solar system bodies from harmful contamination has been an important principle throughout the history of space exploration For decades the scientific political and economic conditions of space exploration converged in ways that contributed to effective development and implementation of planetary protection policies at national and international levels However the future of space exploration faces serious challenges to the development and implementation of planetary protection policy The most disruptive changes are associated with 1 sample return from and

human missions to Mars and 2 missions to those bodies in the outer solar system possessing water oceans beneath their icy surfaces Review and Assessment of Planetary Protection Policy Development Processes addresses the implications of changes in the complexion of solar system exploration as they apply to the process of developing planetary protection policy Specifically this report examines the history of planetary protection policy assesses the current policy development process and recommends actions to improve the policy development process in the future *Official Gazette of the United States Patent and Trademark Office* ,1998 Shaping the Message, Distorting the Science United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Investigations and Oversight,2007 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1973 **Neurobiology of Learning and Memory** James L. McGaugh,Gordon L. Shaw,1990 This volume consists of 82 classic and important contributions to the basic neurobiology of learning and memory Included are historical articles as well as articles on developmental plasticity hormones and memory long term potentiation electrophysiology of memory biochemistry of memory morphology of memory invertebrate models and features of animal and human memory This is a companion volume to Brain Theory Reprint Volume in which articles on mathematical models of memory are presented Forum Memo to Members ,1976

Stepping-Stones to the Future of Space Exploration National Research Council,Division on Engineering and Physical Sciences,Aeronautics and Space Engineering Board,2004-06-27 NASA s Human Exploration and Development of Space HEDS program within the Office of Space Flight has proposed a new framework for space technology and systems development Advanced Systems Technology Research and Analysis ASTRA for future space flight capabilities To assist in the development of this framework NASA asked the National Research Council to convene a series of workshops on technology policy issues concerning the relationship of the various stakeholders in advancing human and robotic exploration and development of space The first workshop which is the topic of this report focused on policy issues about the development and demonstration of space technologies Four policy topics selected by the project steering committee as the foci of this first workshop are discussed in the report the rationale for human and robotic space exploration technology as a driver for capability transformation risk mitigation and perception and international cooperation and competition

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