

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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**James Silk Buckingham, John
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Maurice, Henry Stebbing, Charles
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Parliamentary Papers Great Britain. Parliament. House of Commons, 1911 Book-keeper ,1907 **Resources in Education** ,1998 Business, the Magazine for Office, Store and Factory ,1907 **Fundamentals of Space Life Sciences** Susanne Elaine Churchill, 1997 Fundamentals of Space Life Sciences is the first comprehensive teaching text to be published in the space life sciences Designed primarily to support coursework at the advanced undergraduate and graduate levels this two volume set is also a state of the art reference text for those desiring a broad overview of the space environment response of living systems to spaceflight psychosocial issues of spaceflight and life support systems **Applied Mechanics Reviews** ,1979 Scientific and Technical Aerospace Reports ,1976 *Nature* Sir Norman Lockyer, 1877 *Nature* ,1877 The Post Magazine and Insurance Monitor ,1912 **The Medical Times and Gazette** ,1875 *Athenaeum and Literary Chronicle* James Silk Buckingham, John Sterling, Frederick Denison Maurice, Henry Stebbing, Charles Wentworth Dilke, Thomas Kibble Hervey, William Hepworth Dixon, Norman Maccoll, Vernon Horace Rendall, John Middleton Murry, 1870 Aeroplane ,1912 Aeroplane and Commercial Aviation News ,1912 The Athenaeum ,1870 **Catalogue of the Library of the Boston Athenaeum** ,1874 *The Subject Index to Periodicals* ,1922 The Athenaeum James Silk Buckingham, John Sterling, Frederick Denison Maurice, Henry Stebbing, Charles Wentworth Dilke, Thomas Kibble Hervey, William Hepworth Dixon, Norman Maccoll, Vernon Horace Rendall, John Middleton Murry, 1871 *The Publishers Weekly* ,1881 Business ,1907

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Table of Contents Life Sciences Practical Exam Paper 3 Memorandum

1. Understanding the eBook Life Sciences Practical Exam Paper 3 Memorandum
 - The Rise of Digital Reading Life Sciences Practical Exam Paper 3 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Life Sciences Practical Exam Paper 3 Memorandum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Life Sciences Practical Exam Paper 3 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Life Sciences Practical Exam Paper 3 Memorandum
 - Personalized Recommendations
 - Life Sciences Practical Exam Paper 3 Memorandum User Reviews and Ratings
 - Life Sciences Practical Exam Paper 3 Memorandum and Bestseller Lists
5. Accessing Life Sciences Practical Exam Paper 3 Memorandum Free and Paid eBooks
 - Life Sciences Practical Exam Paper 3 Memorandum Public Domain eBooks
 - Life Sciences Practical Exam Paper 3 Memorandum eBook Subscription Services
 - Life Sciences Practical Exam Paper 3 Memorandum Budget-Friendly Options
6. Navigating Life Sciences Practical Exam Paper 3 Memorandum eBook Formats

- ePub, PDF, MOBI, and More
 - Life Sciences Practical Exam Paper 3 Memorandum Compatibility with Devices
 - Life Sciences Practical Exam Paper 3 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Life Sciences Practical Exam Paper 3 Memorandum
 - Highlighting and Note-Taking Life Sciences Practical Exam Paper 3 Memorandum
 - Interactive Elements Life Sciences Practical Exam Paper 3 Memorandum
8. Staying Engaged with Life Sciences Practical Exam Paper 3 Memorandum
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Life Sciences Practical Exam Paper 3 Memorandum
9. Balancing eBooks and Physical Books Life Sciences Practical Exam Paper 3 Memorandum
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Life Sciences Practical Exam Paper 3 Memorandum
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Life Sciences Practical Exam Paper 3 Memorandum
- Setting Reading Goals Life Sciences Practical Exam Paper 3 Memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Life Sciences Practical Exam Paper 3 Memorandum
- Fact-Checking eBook Content of Life Sciences Practical Exam Paper 3 Memorandum
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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