

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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Table of Contents Memorandum For Practical Examination For Life Science

1. Understanding the eBook Memorandum For Practical Examination For Life Science
 - The Rise of Digital Reading Memorandum For Practical Examination For Life Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum For Practical Examination For Life Science
 - 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 Memorandum For Practical Examination For Life Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum For Practical Examination For Life Science
 - Personalized Recommendations

- Memorandum For Practical Examination For Life Science User Reviews and Ratings
- Memorandum For Practical Examination For Life Science and Bestseller Lists
- 5. Accessing Memorandum For Practical Examination For Life Science Free and Paid eBooks
 - Memorandum For Practical Examination For Life Science Public Domain eBooks
 - Memorandum For Practical Examination For Life Science eBook Subscription Services
 - Memorandum For Practical Examination For Life Science Budget-Friendly Options
- 6. Navigating Memorandum For Practical Examination For Life Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Memorandum For Practical Examination For Life Science Compatibility with Devices
 - Memorandum For Practical Examination For Life Science Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memorandum For Practical Examination For Life Science
 - Highlighting and Note-Taking Memorandum For Practical Examination For Life Science
 - Interactive Elements Memorandum For Practical Examination For Life Science
- 8. Staying Engaged with Memorandum For Practical Examination For Life Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memorandum For Practical Examination For Life Science
- 9. Balancing eBooks and Physical Books Memorandum For Practical Examination For Life Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memorandum For Practical Examination For Life Science
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Memorandum For Practical Examination For Life Science
 - Setting Reading Goals Memorandum For Practical Examination For Life Science
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Memorandum For Practical Examination For Life Science
 - Fact-Checking eBook Content of Memorandum For Practical Examination For Life Science

- 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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