

**Practical Task Term 1: Biosphere to ecosystems**

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Total	
	30

**Duration:** 45 minutes

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**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,

# Life Sciences Practical Exam 2014 Memorandum

## November

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## **Life Sciences Practical Exam 2014 Memorandum November:**

*Management of Legionella in Water Systems* National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Division on Earth and Life Studies, Board on Population Health and Public Health Practice, Board on Life Sciences, Water Science and Technology Board, Committee on Management of Legionella in Water Systems, 2020-02-20 Legionnaires disease a pneumonia caused by the Legionella bacterium is the leading cause of reported waterborne disease outbreaks in the United States Legionella occur naturally in water from many different environmental sources but grow rapidly in the warm stagnant conditions that can be found in engineered water systems such as cooling towers building plumbing and hot tubs Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system Legionnaires disease can be fatal with between 3 and 33 percent of Legionella infections leading to death and studies show the incidence of Legionnaires disease in the United States increased five fold from 2000 to 2017 *Management of Legionella in Water Systems* reviews the state of science on Legionella contamination of water systems specifically the ecology and diagnosis This report explores the process of transmission via water systems quantification prevention and control and policy and training issues that affect the incidence of Legionnaires disease It also analyzes existing knowledge gaps and recommends research priorities moving forward

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the clitellum

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web dissect the earthworm as described in case of general anatomy after exposing the alimentary canal remove the blood vessels hearts blood glands muscles etc from above and around the alimentary canal now locate the buccal cavity 2nd segment pharynx 3rd to 5th oesophagus 6th 7th gizzard 8th 9th stomach 10th 15th and