



**Subject:** Grade 8 Natural Sciences  
**Topic:** Natural Sciences: Term 1 - Mini-Exam  
**Total:** 70 Marks

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

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

## Question 1: Please Fill In The Blanks

4 marks

Which of the following are producers? (1) and (2) .

List your answers in alphabetical order.

Possible Answers: flies | algae | bees | grass

|   |  |
|---|--|
| 1 |  |
|---|--|

|   |  |
|---|--|
| 2 |  |
|---|--|

## Question 2: Please Fill In The Blanks

4 marks

A **successful, balanced** population is a group of organisms of the same species found in a specific area at a specific time. They must also be able to (1) and reproduce in that area. When scientists study such a population, they will focus on factors such as (2) and population decline.

Possible Answers: population growth | breed | increase | reduced | population decline | extinction

|   |  |
|---|--|
| 1 |  |
|---|--|

|   |  |
|---|--|
| 2 |  |
|---|--|



**This image refers to question: 3**



**Question 3: Please Fill In The Blanks**

4 marks

Simple organisms that are **green in colour**, produce their own food through the process of (1) and belong to the Protista Kingdom are known as (2) .

Possible Answers: coral | respiration | algae | photosynthesis | duckweed

|          |  |
|----------|--|
| <b>1</b> |  |
|----------|--|

|          |  |
|----------|--|
| <b>2</b> |  |
|----------|--|

**This image refers to question: 4**



**Question 4: Multiple Choice**

4 marks

These single-celled organisms (approximately 5 - 10  $\mu\text{m}$ ) cannot produce their own food and live mainly on sugars. They produce alcohol and carbon dioxide from sugars and belong to the fungi kingdom.

- |          |        |
|----------|--------|
| <b>A</b> | Algae  |
| <b>B</b> | Mould  |
| <b>C</b> | Monera |
| <b>D</b> | Yeast  |

**Question 5: Text Input**

3 marks

A shark is not an omnivore but a ... .

Type **one word** only.

**Question 6: True/False**

2 marks

Viruses can perform all life functions such as growth, reproduction and **independent** movement.

**TRUE**

**FALSE**

**Question 7: True/False**

2 marks

An ecosystem contains living organisms only.

**Question 8: Text Input**

3 marks

What is the name of the body's natural defense system that protects you against infection?

Type only the name of the system.

**Question 9: True/False**

2 marks

All birds are primary consumers.

**Question 10: Multiple Choice**

4 marks

Which of the following are abiotic factors of a fish pond?

A: the water and plants

B: the soil and fish

C: the soil and water

☐ **A**

C only

☐ **B**

B only

☐ **C**

A and B

☐ **D**

B and C



**Question 11: Text Input**

3 marks

The study of the interactions and relationship between organisms and their environment is called ... .

|  |
|--|
|  |
|--|

**Question 12: Multiple Choice**

4 marks

A primary consumer will always ... .

- |          |                                            |
|----------|--------------------------------------------|
| <b>A</b> | produce it's own food                      |
| <b>B</b> | obtain it's food from producers            |
| <b>C</b> | break down dead organic matter             |
| <b>D</b> | obtain it's food from a secondary consumer |

**Question 13: Please Fill In The Blanks**

6 marks

Which of the following are abiotic factors of an ecosystem? (1) and (2) .

List your answers in alphabetical order.

Possible Answers: wind | snails | locusts | water | snakes

|          |  |          |  |
|----------|--|----------|--|
| <b>1</b> |  | <b>2</b> |  |
|----------|--|----------|--|

**Question 14: Multiple Choice**

4 marks

A cow is regarded as a herbivore because ... .

- |          |                                 |
|----------|---------------------------------|
| <b>A</b> | it produces its own milk        |
| <b>B</b> | it lives mainly in grasslands   |
| <b>C</b> | it feeds on insects             |
| <b>D</b> | it feeds only on plant material |

**Question 15: Text Input**

3 marks

**Mesophytes** are plants that are adapted to live in areas with an **average** amount of ... . Thus, they survive better during a drought than hydrophytes.

Answer with one word only.

|  |
|--|
|  |
|--|

**Question 16: Please Fill In The Blanks**

6 marks

At the top of the energy pyramid would be the (1) with the (2) energy, while the (3) would be at the bottom of the pyramid.

Possible Answers: least | most | producers | primary consumers | tertiary consumers

|          |  |
|----------|--|
| <b>1</b> |  |
| <b>3</b> |  |

|          |  |
|----------|--|
| <b>2</b> |  |
|----------|--|

**Question 17: True/False**

2 marks

Water pollution only occurs in one form – humans use it to dispose of much of their own waste.

|             |              |
|-------------|--------------|
| <b>TRUE</b> | <b>FALSE</b> |
|-------------|--------------|

**Question 18: Multiple Choice**

4 marks

Choose the **most important factor** that most disturbs the **balance** of the **rhino population** in an ecosystem.

|          |           |
|----------|-----------|
| <b>A</b> | Poaching  |
| <b>B</b> | Habitat   |
| <b>C</b> | Climate   |
| <b>D</b> | Pollution |

**Question 19: True/False**

2 marks

All species of lizards are omnivores.

|             |
|-------------|
| <b>TRUE</b> |
|-------------|

|              |
|--------------|
| <b>FALSE</b> |
|--------------|

**Question 20: Please Fill In The Blanks**

4 marks

Which of the following are good examples of primary consumers? (1) and (2) .

Possible Answers: lion | elephant | snake | zebra | leopard

|          |  |
|----------|--|
| <b>1</b> |  |
|----------|--|

|          |  |
|----------|--|
| <b>2</b> |  |
|----------|--|

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**Total: 70 Marks**