



EXAMINATIONS COUNCIL OF ESWATINI
Junior Certificate Examination

CANDIDATE
NAME

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CENTRE
NUMBER

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AGRICULTURE

516/02

Paper 2

October/November 2022

1 hour 45 minutes

READ THESE INSTRUCTIONS FIRST

Write your Candidate Name, Centre Number and Candidate Number on the answer sheet provided.

Answer all questions on the question paper by completing each question as instructed.

This paper consists of **two** sections. **Section A and Section B.**

Section A consist of simple response questions worth 50 marks.

Section B consist of **three** essay questions of which you are expected to answer any **two** essays worth 25 marks each.

You may use a calculator

Read all questions carefully

Answer on the lines provided.

For Examiner's Use		
Section A		
Section B	1	
	2	
	3	
Total		

This document consists of **16** printed pages.

Section A: Simple Response Questions

Answer all questions in this section (50 Marks)

1 (a) What is crop rotation?

.....
..... [1]

(b) Outline any **two** benefits of suitable temperature on plant growth.

(i).....
(ii)..... [2]

(c) Explain why food production is low in subsistence farming.

.....
.....
.....
..... [2]

[Total: 5 marks]

2 (a) State the national policy that controls the import and exports of livestock.

..... [1]

(b) Describe the role of a ranch manager.

.....
..... [1]

(c) Discuss the impact of HIV/AIDS on agricultural productivity.

.....
.....
..... [2]

[Total: 4 marks]

3 (a) Fig. 3.1 is a diagram of an invasive plant.



Fig 3.1

Name the invasive plant species shown in Fig 3.1.

..... [1]

(b) Outline any **two** characteristics of invasive plants.

(i).....

(ii)..... [2]

(c) Suggest two ways in which biodiversity prevents the loss of plant species.

(i).....

.....

(ii).....

..... [2]

[Total: 5 marks]

4 (a) Fig. 4.1 shows stages of bean seed germination.

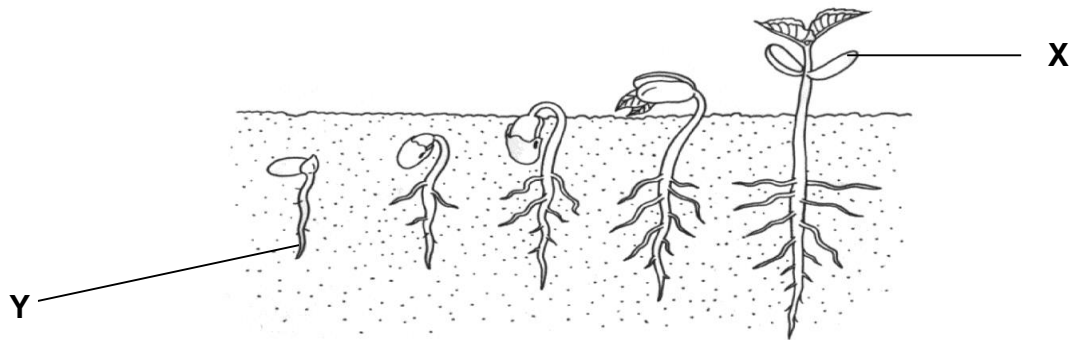


Fig 4.1

(i) Name part X in Fig.4.1.

..... [1]

(ii) State the function of part Y in Fig.4.1.

..... 1]

(b) Describe the process of seed germination.

.....
.....
..... [2]

[Total: 4 marks]

5 (a) Give any two roles of potassium in plants.

(i).....

(ii) [2]

(b) Explain how organic fertilisers improve soil structure.

.....
.....
..... [2]

[Total: 4 marks]

6 (a) State **two** methods of administering a vaccine in chickens.

(i).....

(ii)..... [2]

(b) Explain how low temperatures affect egg production.

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..... [2]

[Total: 4 marks]

7 Discuss the marketing of honey.

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..... [4]

[Total: 4 marks]

8 (a) Give any **two** social importance of cattle.

(i).....

(ii)..... [2]

(b) Explain the importance of health records in cattle production.

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..... [2]

[Total: 4 marks]

9 (a) Explain any **one** disadvantage of breeding old nannies.

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.....
..... [2]

(b) Suggest any **two** importance of processing goat's meat.

(i).....
(ii) [2]

[Total: 4 marks]

10 Discuss how each management practice improves the pasture.

(i) Liming

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.....
..... [2]

(ii) Correct stocking rate

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..... [2]

[Total: 4 marks]

11 (a) Explain the environmental importance of agro forestry.

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..... [2]

(b) Explain the importance of pruning fruit trees.

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..... [2]

[Total: 4 marks]

12 (a) Describe the decision-making process in farm business.

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..... [2]

(b) Explain any **one** requirement for decision-making in farm business.

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..... [2]

[Total: 4 marks]

Section B: Essay Questions

Answer any **two** questions in this section (50 Marks)

1 Describe soil fertility and its maintenance. Use the points given below as a guide.

- relevant topic of the essay. [1]
- introduction (definition of soil fertility). [1]
- groups of nutrients required by the plants and give one- examples of each. [4]
- role of organic and inorganic fertilizer in the soil. [3]
- two examples of organic and inorganic fertilizer, [4]
- effects of fresh and old organic matter to plants. [4]
- ways of maintaining soil fertility. [8]

[Total: 25maks]

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Dotted lines for writing.

2 Describe bee keeping for high honey production. Use the points given below as a guide.

- relevant topic of the essay [1]
- introduction (description of bees production) [1]
- importance of bees keeping [5]
- mating of bees and egg production [6]
- advantages of using a Langstroth hive [4]
- management practices [8]

[Total: 25 marks]

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3 Describe the management practices of cattle. Use the points given below as a guide.

- relevant topic of the essay [1]
- introduction (importance of cattle management) [1]
- feeding cattle (summer and winter feeding) [3]
- disbudding and its importance [3]
- role of castration [3]
- effects of diseases and parasites [6]
- how to control diseases and parasites [8]

[Total: 25 marks]

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