EXAMINATIONS COUNCIL OF ESWATINI
Junior Certificate Examination

CANDIDATE NAME								
CENTRE NUMBER					CANDIDATE NUMBER			

AGRICULTURE **516/02**

Paper 2 **October/November 2025**

1 hour 45 minutes

Additional Material: Calculator

READ THESE INSTRUCTIONS FIRST

Write your name, centre number and candidate number on the answer sheet provided.
Answer all questions on the question paper by completing each question as instructed.

Write in **dark blue** or **black pen**
Do **not** use stables, paper clips, highlighters, glue or correction fluid.

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 **15** marks each.

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 **14** printed pages and **2** blank page.

© ECESWA 2025

[Turn over

For Examiner's Use

Section A: Simple Response Questions

Answer **all** questions in this section **(70 Marks)**

1 (a) Describe how mixed farming reduces production costs in a farm.

……..……..

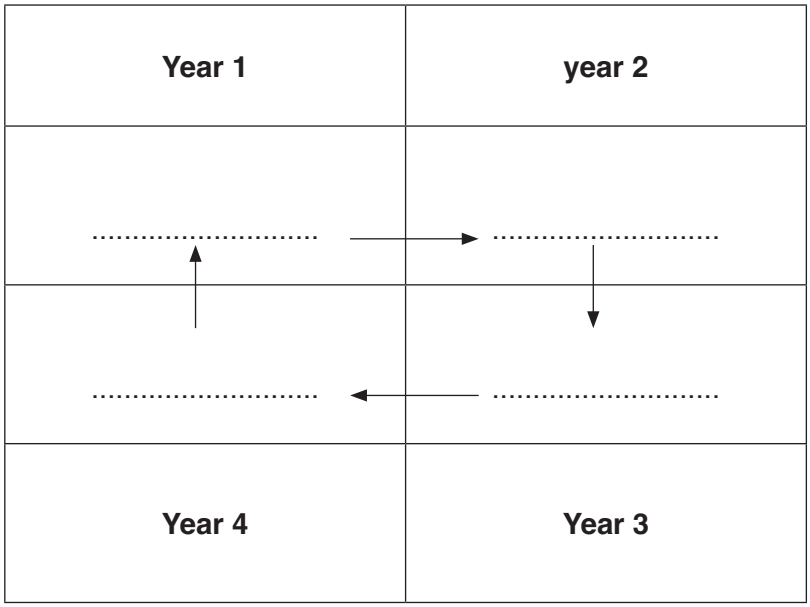
……...

…..……..…… [2]

(b) Table 1.1 shows a four-year crop rotation programme.

Using the guidelines for preparing a rotation, prepare a rotational programme based on the following plants (cabbage, green beans, tomatoes and grass).

Table 1.1



[4]

[Total: 6]

© ECESWA 2025

For Examiner's Use

2 **(a)** Define a farm tool.

……

…… [1]

(b) Fig 2.1 shows a farm implement.



Fig. 2.1

Name the implement indicated in Fig. 2.1.

…… [1]

(c) Discuss the effect of rust in farm tools.

……

……

…… [2]

(d) Explain any **one** way of avoiding accidents in the farm when using tools.

……

……

…… [2]

[Total: 6]

© ECESWA 2025

[Turn over

For Examiner's Use

3 **(a)** Explain how the effect of heavy rainfall can be modified when growing vegetables.

……

……

…… [2]

(b) Explain how the overuse of fertiliser can affect plant growth.

……

……

…… [2]

(c) Explain how high temperature affects the growth of animals.

……

……

…… [2]

[Total: 6]

4 **(a)** State any **two** advantages of direct planting in vegetable production.

(i)……

……

(ii)……

…… [2]

(b) Explain why a slightly sloping land is suitable when planting vegetables.

……

……

…… [2]

(c) Explain why the integrated method of pest control is regarded as the best method.

……

……

…… [2]

[Total: 6]

© ECESWA 2025

For Examiner's Use

5 **(a)** State the **two** raw materials needed for photosynthesis to occur.

(i)……..……..

(ii)……..…… [2]

(b) Discuss the importance of transpiration in plants.

……

……

……..…… [2]

(c) Explain the role of the cotyledon after the seed has germinated.

……

……

……..…… [2]

[Total: 6]

6 **(a)** Explain why a storage grain tank should be placed on a platform.

……

……

……..…… [2]

(b) Explain why it is important to store farm produce that is thoroughly dry.

……

……

……..…… [2]

(c) Suggest any **one** reason for storing old and new produce separately.

……

……..…… [1]

[Total: 5]

© ECESWA 2025

[Turn over

7 Fig 7.1 shows a system of raising chickens.



Fig. 7.1

(a) (i) Name the farming system indicated in Fig. 7.1.

……..…….…… [1]

(ii) State any **one** advantage of the farming system indicated in Fig. 7.1.

……..…….

……..…….…… [1]

(b) State **two** reasons of providing adequate ventilation in a poultry house.

(i)……..……..

(ii)……..…… [2]

(c) Explain the importance of vaccinating chicken in the poultry house.

…….

…….

……..…… [2]

[Total: 6]

© ECESWA 2025

For Examiner's Use

8 **(a)** Give **two** products of honeycombs.

(i)……..……..

(ii)……..…… [2]

(b) State any **two** benefits of bee-keeping.

(i)……..……..

(ii)……..…… [2]

(c) Describe how the brood is protected during inspection.

…….

…….

……..……. [2]

[Total: 6]

9 **(a)** Name the rabbit breed that is difficult to mate.

……..……. [1]

(b) Describe the role of inbreeding in rabbits.

…….

…….

……..……. [2]

(c) Explain the purpose of rubbing vicks on the foster mother's nose during fostering.

…….

…….

……..……. [2]

[Total: 5]

© ECESWA 2025

[Turn over

10 Fig 10.1 shows a diagram of milking a goat.



Fig. 10.1

(a) Name the milking method used in Fig.10.1.

…… [1]

(b) Give any **two** health tips to consider when milking.

(i)……..……..

(ii)…….…… [2]

(c) Explain any **one** disadvantage of veld mating in goats.

…….

…….

……..…… [2]

(d) Suggest any **one** reason for avoiding the use of barbed wire when fencing for goats.

……..…… [1]

[Total: 6]

© ECESWA 2025

For Examiner's Use

11 (a) State any **two** characteristics of a natural pasture.

(i)……..……..

(ii)……..…… [2]

(b) Name any **two** pasture grasses.

(i)……..……..

(ii)……..…… [2]

(c) Explain the importance of burning the pasture once every three to five years.

…….

…….

……..……. [2]

[Total: 6]

12 (a) Outline the importance of record keeping in an enterprise.

…….

…….

……..……. [2]

(b) Table 12.1 shows a budget sheet of an enterprise.

Classify the listed items in the correct column of income and expenses.

(cabbage sales; tractor hire; wages; sale of manure)

Table 12.1

Expected Income	Expected Expense
(i) ……..……..	**(i)** ……..……..
(ii) ……..……..	**(ii)** ……..……..

[4]

[Total: 6]

© ECESWA 2025

[Turn over

Section B: Essay Questions

Answer any **two** questions in this section **(30 Marks)**

1 Vegetable Production

(a) Describe the process of taking care of seedlings in a seedbed. [6]

(b) Discuss the steps involved in land reclamation. [4]

(c) Discuss the process of topdressing. [5]

[Total: 15]

2 Layer Production

(a) Describe the **three** types of feed given to chickens being raised for laying from day one to egg production [6]

(b) Discuss how daylength affects the production of eggs in layers [4]

(c) Discuss the requirements for storing eggs. [5]

[Total: 15]

3 Agroforest Production

(a) Describe **three** factors that influence the location of a nursery [6]

(b) Discuss the pruning process in fruit trees [4]

(c) Discuss the procedure for watering a newly planted fruit trees. [5]

[Total: 15]

© ECESWA 2025

© ECESWA 2025

© ECESWA 2025

BLANK PAGE

© ECESWA 2025

BLANK PAGE

Permission to reproduce items where third party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (ECESWA) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

© ECESWA 2025