



EXAMINATIONS COUNCIL OF ESWATINI
Eswatini Prevocational Certificate of Secondary Education

CANDIDATE
NAME

--

CENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--

AGRICULTURAL TECHNOLOGY

5920/02

Paper 2

October/November 2022

Total: 100 Marks

2 hours

INSTRUCTIONS:

Write your Name, Centre Number and Candidate Number on all the work you hand in.
Write in **blue or black ink**.

This paper consists of **two (2)** sections. **Section A** and **Section B**
Section A consists of short structured questions worth **60** marks. Answer **all** questions.
Section B consists of **three (3)** essay questions. Answer any **two (2)** essays worth **40** marks.

You may use a soft pencil **HB** for any diagrams, graphs or rough working.
Do **not** use staples, paper clips, highlighters, glue or correction fluid.
You may use a calculator.

For Examiner's Use	
Section A	
Section B	
Total	

This document consists of **12** printed pages.

SECTION A: Short Structured Questions

Answer **all** questions in this section (60 marks)

1 (a) State why a poultry house should be sited near a water source

.....

 [2]

(b) Differentiate between a good and a poor layer using the table below:

Characteristic	Good layer	Poor layer
Pubic bones
Comb
Vent

[3]

[5 marks]

2 (a) State the time broilers need for the brooding stage.

.....
 [1]

(b) State any **two** ways of controlling diseases in broilers.

- (i)
- (ii) [2]

(c) Explain any **one** benefit of keeping the correct stocking rate in broiler production.

.....

 [2]

[5 marks]

3 (a) State the gestation period of a pig.

..... [1]

(b) Name the medications given to pigs during the following stages;

(i) sow immediately after farrowing

..... [1]

(ii) piglets within 3 days after birth

..... [1]

(c) Describe how you would recognise a large white pig breed.

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

[5 marks]

4 Fig. 4.1 shows a tool used for castration.

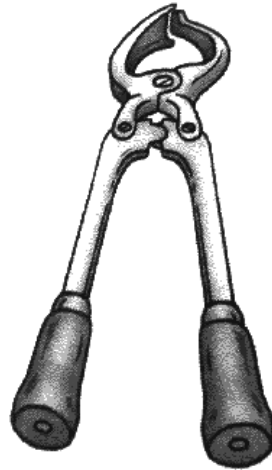


Fig. 4.1

(a) Name the tool in Fig. 4.1

..... [1]

(b) Explain how using the tool in Fig. 4.1 makes an animal infertile.

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

(c) Define drying-off in goat management.

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

(d) Differentiate between subcutaneous and intramuscular injection.

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

[6 marks]

5 (a) Suggest how a farmer can correct the following problems in plants growing in a nursery bed.

(i) weak, thin and tall seedlings

..... [1]

(ii) yellow older leaves

..... [1]

(b) Explain how aphids reduce yields in leafy vegetables.

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

[4 marks]

6 (a) Outline any **three** factors to consider when choosing a suitable maize cultivar.

(i)

(ii)

(iii) [3]

(b) Explain why maize intercropped with legumes will produce high yields.

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

[5 marks]

7 Fig. 7.1 shows a cultivated area affected by erosion.



Fig. 7.1

(a) State any **three** effects of soil erosion in Fig. 7.1.

- (i)
- (ii)
- (iii) [3]

(b) Outline the roles of agroforestry in Eswatini.

-
- [2]

[5 marks]

8 (a) Suggest any **two** uses a living fence has in addition to fencing.

- (i)
- (ii) [2]

(b) Fig. 8.1 shows a tool used during fence construction.



Fig 8.1

State the function of the tool shown in Fig. 8.1.

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

(c) Describe how a farmer would put droppers when constructing a barbed wire fence.

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

[5 marks]

9 (a) Define seed dormancy.

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

(b) Give any **two** reasons why floriculture is important.

- (i)
- (ii) [2]

(c) Differentiate between the terms stratification and scarification in relation to germination.

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

[5 marks]

10 (a) State any **three** materials collected by bees during foraging.

- (i)
- (ii)
- (iii) [3]

(b) Outline **two** things that may occur if hives are not placed on stands

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

[5 marks]

11 (a) Give **two** reasons for swarming in honeybees.

- (i)
- (ii) [2]

(b) State any **two** methods of rendering beeswax.

- (i)
- (ii) [2]

(c) State a reason for rendering beeswax.

..... [1]

[5 marks]

12 (a) State any **two** types of fish feed commonly used in Eswatini.

- (i)
- (ii) [2]

(b) Describe how integrated fish farming maximises the profitability of a farm.

.....
.....
.....
..... [3]

[5 marks]

Section B – Essay questions

Answer any **two** questions in this section (40 marks)

- 13 (a) Outline the kidding process in goats. [9]
- (b) Explain why a farmer would breed a Saanen with a Nguni goat. [5]
- (c) Discuss advantages and disadvantages of tethering goats. [6]

[20 marks]

- 14 (a) Outline the stages required when transplanting fruit trees. [9]
- (b) Explain how you would minimise loss of fruit during harvesting. [5]
- (c) Discuss the advantages and disadvantages of basin irrigation in fruit trees. [6]

[20 marks]

- 15 (a) Outline soil preparation procedure for establishing lawns. [9]
- (b) Explain the handling of fresh cut flowers. [5]
- (c) Discuss the advantages and disadvantages of raising seedlings in a nursery. [6]

[20 marks]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

