



EXAMINATIONS COUNCIL OF ESWATINI
Eswatini Prevocational Certificate of Secondary Education

CANDIDATE
NAME

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CENTRE
NUMBER

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CANDIDATE
NUMBER

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AGRICULTURAL TECHNOLOGY

5920/02

Paper 2

October/November 2024

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.

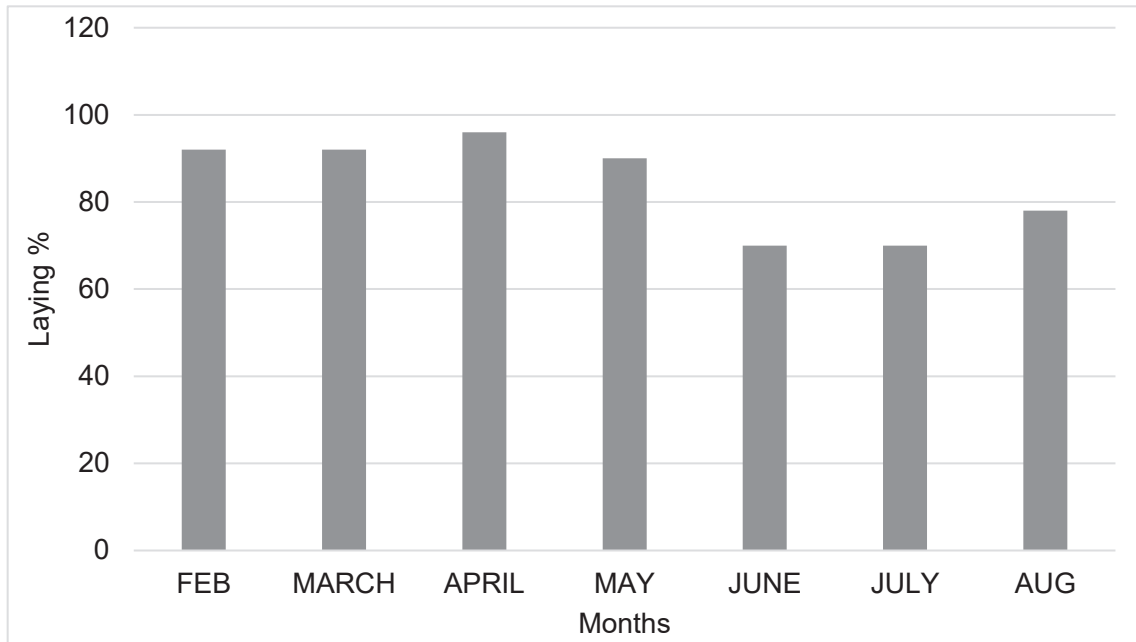
You may use a soft pencil for any diagrams, graphs or rough working.
Do **not** use staples, paper clips, highlighters, glue or correction fluid.
You may use a calculator.

For Examiner's Use	
Section A	
Section B	
Total	

This document consists of **13** printed pages and **3** blank pages.

Section A: Short Structured QuestionsAnswer **all** questions in this section **(60 marks)**

- 1 **Fig. 1.1** shows the laying percentages of eggs produced in different months of the year.

**Fig. 1.1**

- (a) (i) State the month which has the highest number of eggs laid.

..... [1]

- (ii) State the months which have the least number of eggs produced.

1

2 [1]

- (iii) Suggest **two** factors that might have led to the decrease in egg production in the months mentioned in part (ii).

1

.....

2

..... [2]

- (b) Describe the condition of a vent in a poor layer.

.....

.....

..... [2]

[6 marks]

- 2 (a) (i) Name any **one** internal parasite of pigs.

..... [1]

- (ii) Outline any **two** symptoms of internal parasites in pigs.

1

2 [2]

- (b) Describe ways in which diseases could be controlled in pigs.

.....

.....

..... [2]

[5 marks]

- 3 Fig. 3.1 shows a goat breed.



Fig. 3.1

- (a) (i) Identify the breed shown in Fig. 3.1.

..... [1]

- (ii) State the purpose of the breed shown in Fig. 3.1.

..... [1]

- (b) Define outcrossing in goats.

.....

..... [1]

- (c) Explain the importance of drying-off in goats.

.....

.....

..... [2]

[5 marks]

- 4 (a) Describe precautions which should be taken to prevent damage to the environment when spraying crops.

.....

.....

..... [2]

- (b) Describe any **two** methods of sowing field crops.

(i)

.....

(ii)

..... [4]

[6 marks]

- 5 (a) Explain how the following factors limit fruit production in Eswatini.

- (i) Soil type

.....

.....

..... [2]

- (ii) Climatic conditions

.....

.....

..... [2]

- (b) Suggest the effect on the fruit of harvesting in wet weather.

.....

..... [1]

[5 marks]

6 Fig. 6.1 shows tools and implements used in agriculture.

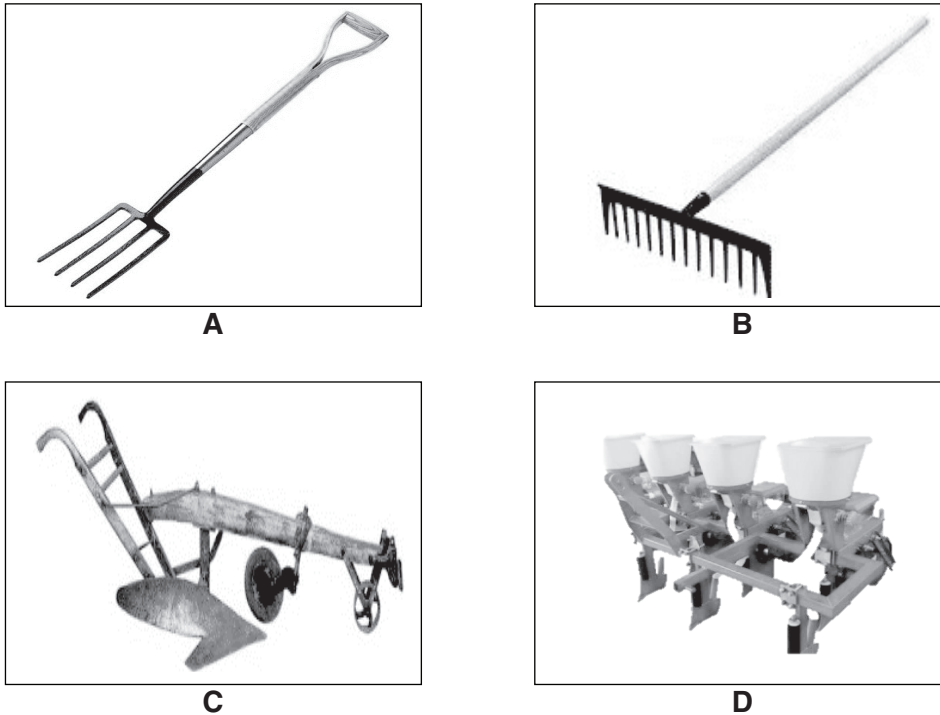


Fig. 6.1

(a) (i) Name tool **A** and **B** shown in Fig. 6.1.

A..... [1]

B..... [1]

(ii) State the functions of implements **C** and **D** in Fig. 6.1.

C..... [1]

D..... [1]

(b) Outline any **two** safety precautions to be observed when using farm tools.

(i)

.....

(ii)

..... [2]

[6 marks]

7 (a) State any **two** organic materials used in landscaping.

(i)

(ii) [2]

(b) Suggest an advantage of using organic material over inorganic material in landscaping.

.....

..... [1]

(c) Outline any **two** measures used to conserve moisture in a lawn.

(i)

(ii) [2]

[5 marks]

8 Fig. 8.1 shows lawn pests.



A



B

Fig. 8.1

(a) Identify the pest shown in Fig. 8.1

A [1]

B [1]

(b) Describe the damage done by the pests in Fig. 8.1

A

..... [1]

B

..... [1]

[4 marks]

- 9 (a) Explain the importance of air movement in a hive.

.....

.....

..... [2]

- (b) Describe the functions of the following castes of bee.

- (i) Drones

.....

..... [1]

- (ii) Queen bee

.....

..... [1]

[4 marks]

- 10 Fig. 10.1 shows a dance performed by honey bees.



Fig. 10.1

- (a) Identify the type of dance shown in Fig. 10.1.

..... [1]

- (b) Describe the message communicated by the dance in Fig. 10.1.

.....

.....

..... [2]

(c) Differentiate between the terms absconding and swarming when applied to bees in a hive.

(i) Absconding

.....
 [1]

(ii) Swarming

.....
 [1]

[5 marks]

11 (a) Differentiate between “polyculture” and “integrated fish farming”.

(i) Polyculture

.....
 [1]

(ii) Integrated fish farming

.....
 [1]

(b) Explain the effect of water temperature in fish farming.

.....

 [2]

[4 marks]

12 (a) State any **three** effects on fish that result from overstocking a pond.

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

(b) State any **two** advantages of using salting rather than canning for fish preservation.

(i)
 (ii) [2]

[5 marks]

Section B: Essays Questions

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

13 (a) Describe **seven** signs of a healthy hen. [7]

(b) Outline the preparations for the arrival of day-old chicks. [7]

(c) Discuss the management practices carried out in broiler production. [6]

[20 marks]

14 (a) Describe the characteristics of a good garden site. [7]

(b) Outline the steps followed when making a compost heap. [7]

(c) Discuss the importance of crop rotation. [6]

[20 marks]

15 (a) Describe the characteristics of a good apiary site. [7]

(b) Outline the steps followed when harvesting honeycombs. [7]

(c) Discuss the importance of workers in honey production. [6]

[20 marks]

[illegible]

[illegible]

[illegible]

[illegible]

