



# EXAMINATIONS COUNCIL OF ESWATINI

## Eswatini Primary Certificate Examination

CANDIDATE  
NAME

CENTRE  
NUMBER

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CANDIDATE  
NUMBER

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**AGRICULTURE**

**616/01**

**Paper 1**

October/November 2020  
1 hour 45 Minutes

**READ THESE INSTRUCTIONS FIRST**

1. Write your candidate name, Centre number and candidate number on the answer sheet provided.
2. This paper consists of two sections: **Section A and Section B.**
3. Section A consists of 20 multiple choice questions.
4. **Four** possible answers are given for each question. Choose the correct answer and write the letter corresponding to your choice in the box provided.

**EXAMPLE:** 21. A cow has ...legs.

- A. 2
- B. 4
- C. 6
- D. 8

<b>B</b>
----------

5. Section B consists of short answer questions.
6. Answer **all** questions in the spaces provided.
7. Read **all** questions carefully.
8. Answer **all** questions.

<i>For Examiner's Use</i>	
<b>Section A</b>	
<b>Section B</b>	
<b>Total</b>	

This document consists of **17** printed pages and **3** blank pages.

## SECTION A

Answer all questions in this section (20 Marks)

1 When are broilers ready for market?

A at 2 Kg

B at 3 Kg

C at 4 kg

D at 5 Kg

2 What do we call a young male chick?

A cock

B cockerel

C hen

D pullet

3 What is ad-lib feeding?

A feed is always available for chickens

B feed is given in measured amounts

C feeding chickens grains all the time

D feeding chickens green vegetables

4 Which of the following is a cause of soil erosion?

A encouraging water drainage

B improving the soil structure

C incorrect irrigation of crops

D practicing crop rotation

5 Which management practice is used to prevent soil erosion?

A acidification

B conservation

C contamination

D salinization

6 Which type of soil is made up of large particles?

- A clay soil
- B loam soil
- C sand soil
- D silt soil

7 What are the three main parts of a plant?

- A anther, filament, ovary
- B leaves, roots, stem
- C petal, sepal, stalk
- D stigma, style, ovary

8 What are the main nutrients needed for plant growth?

- A magnesium, molybdenum and zinc
- B magnesium, potassium and zinc
- C molybdenum, phosphorus and zinc
- D nitrogen, phosphorus and potassium

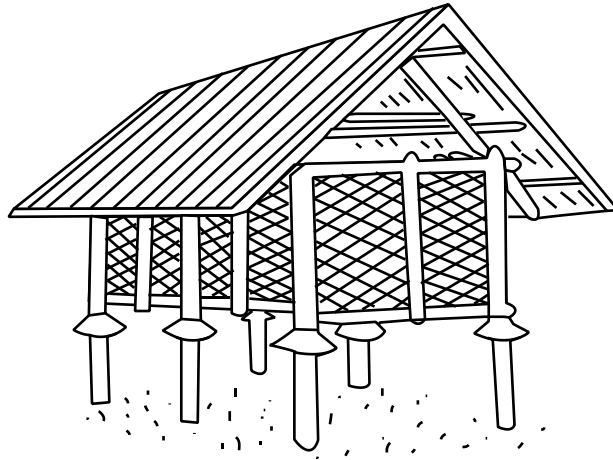
9 What is a title deed land?

- A land held as long as descendants live
- B land held in trust by the king for people
- C land owned by individual people
- D the way people are allocated land

10 When should maize be harvested for mealie meal?

- A when it is required in the market
- B when the grain is dry and hard
- C when the grain is fully grown and juicy
- D when the sheaths are still green

11 **Figure 11.1** shows a farm structure.



**Fig. 11.1**

Which crop can you store in **Fig. 11.1**?

- A dry maize cobs
- B green mealies
- C juko beans
- D sweet potatoes

12 Which vegetable pest feed on seedlings?

- A American bollworm
- B Aphid
- C Cutworm
- D Diamondback moth

13 What is the layer of material on which mushrooms grow and feed?

- A bagasse
- B mycelium
- C substrate
- D supplement

14 **Figure 14.1** shows a garden tool.



**Fig. 14.1**

What is the use of the tool in **Fig. 14.1**?

- A applying fertiliser
- B digging small holes
- C replacing transplants
- D weeding within rows

15 Which gas is required for photosynthesis to occur?

- A air
- B carbon dioxide
- C nitrogen
- D oxygen

16 Which crop is classified as a fibre crop?

- A beans
- B cotton
- C potatoes
- D pumpkins

**17** Which type of farming involves the movement of farmers from place to place in search for food and water?

- A** cash crop farming
- B** modern farming
- C** nomadic farming
- D** traditional farming

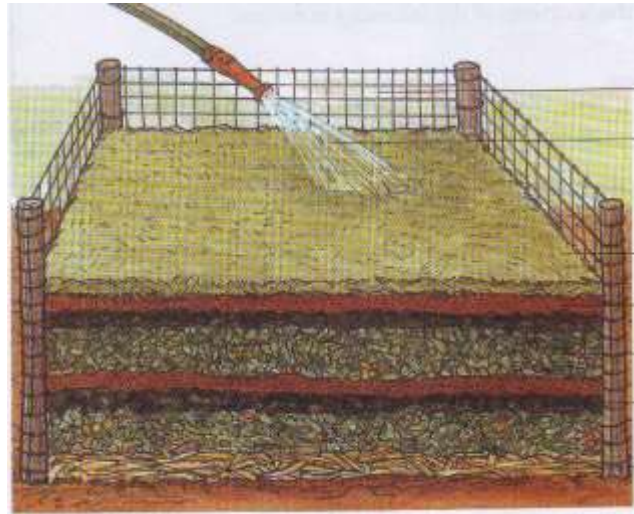
**18** Which of the following is a parasitic weed?

- A** blackjack
- B** invasive weed
- C** wild eggplant
- D** witch weed

**19** Which group does money received from selling cabbages fall under?

- A** expenses
- B** income
- C** loss
- D** profit

20 **Figure. 20.1** shows a compost heap being watered.



**Fig. 20.1**

Why is the compost in **Fig. 20.1** watered?

- A** to add nutrients
- B** to cool compost
- C** to make it moist
- D** to promote rotting



**[Total 20 Marks]**

**SECTION B**

Answer **all** questions in this section (80 Marks)

1. (a) What is traditional farming?

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

(b) State any **two** characteristics of traditional farming.

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

(c) Explain why farmers need capital in modern farming?

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

**[5 marks]**

2. (a) State any **two** disadvantages of having a garden in a sloppy area.

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

(b) Explain the importance of windbreakers in a garden?

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



**(c)** Explain why a school vegetable garden should be located near the school?

.....  
.....  
.....  
..... [2]  
**[6 marks]**

**3. (a)** Name the person who rents a farm from the owner?

..... [1]

**(b)** Explain why a farmer may prefer to farm in the following land?

**(i)** Swazi Nation Land

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

**(ii)** Title deed Land

.....  
.....  
..... [2]  
**[5 marks]**

4. (a) **Table 4.1** shows examples of equipment and their uses. Complete the table below.

**Table 4.1**

Type of equipment	Uses of equipment
Pivot sprinkler	(i).....
(ii).....	Harvesting and shelling maize
Tractor drawn planter	(iii).....

[3]

- (b) What is agriculture technology?

.....  
.....  
.....

[2]

- (c) Name any **one** agriculture technology used in animal production?

..... [1]

**[6 marks]**

5. (a) Describe a hybrid.

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

(b) Explain the importance of a fine tilth when planting?

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

**[4 marks]**

6. (a) State **two** stages in which fertilizer could be applied to plants?

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

(b) Describe a straight fertilizer.

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

(c) Give **one** example of a basal dressing fertilizer?

..... [1]

**[5 marks]**

7. (a) State any **two** ways in which weeds can spread.  
(i).....  
(ii)..... [2]

- (b) Explain **two** ways of removing weeds in a plot?  
(i).....  
.....  
(ii).....  
.....[4]

[6 marks]

8. **Figure 8.1** shows a vegetable with a disease.



**Fig.8.1**

- (a) Name the disease shown in **Fig. 8.1**?  
..... [1]

**(b)** State any **two** main ways of controlling pests and diseases in vegetables?

**(i)**.....

**(ii)**..... [2]

**(c)** Describe wilting in plants.

.....

.....

..... [2]

**[5 marks]**

**9. (a)** State two safety precautions taken when harvesting crops.

**(i)**.....

**(ii)**..... [2]

**(b)** Explain the effects of the sun on harvested potatoes?

.....

..... [2]

**(c)** Explain why it is important to harvest crops at the right time?

.....

.....

..... [2]

**[6 marks]**

10. (a) State any **two** signs which shows that mushrooms are ready for harvest.

(i).....

(ii)..... [2]

(b) Describe casting in mushroom production?

.....

.....

.....

..... [2]

(c) Explain why stalks should not be left in the substrate

.....

..... [2]

**[6 marks]**

11. (a) Name the part of a plant where photosynthesis occur?

..... [1]

(b) State the **three** basic needs for plants growth?

(i).....

(ii).....

(iii)..... [3]

(c) What are the **two** functions of the flower in plants?

(i).....

(ii)..... [2]

[6 marks]

12. (a) (i) Describe weathering?

.....

.....

(ii) Which soil component have broken down pieces of stones and rocks?

..... [2]

(b) State **two** characteristics of the B horizon in a soil profile

(i) .....

(ii) ..... [2]

(c) Explain why the soil is important to farmers?

.....

.....

.....

..... [2]

[6 marks]

13. (a) State **one** advantage of buying day old chicks.

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

(b) Explain what happens during hatching?

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

(c) Explain the importance of the boundary in the brooding area in broilers?

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

**[5 marks]**

14. (a) State any **three** benefits of planting crops in a row?

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

(b) Explain why a seedbed is watered few hours before transplanting?

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

**[5 marks]**



15. **Figure 15.1** shows a diagram of an activity in a farm.



**Fig. 15.1**

**(a)** Name the action taking place in **Fig. 15.1**?

..... [1]

**(b)** What are the **three** ways of controlling the action in **Fig. 15.1**?

**(i)**.....

.....

**(ii)**.....

.....

**(iii)**.....

..... [3]

**[4 marks]**

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