



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 2023

1 hour 45 minutes

READ THESE INSTRUCTIONS FIRST

Write your name, centre number and candidate number on the answer sheet provided.

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

Section A consists of 20 multiple choice questions.

Four possible answers are given for each question. Choose the **best** answer and write the letter corresponding to your choice in **soft pencil** in the box provided.

EXAMPLE: 40. A cow has ...legs.

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

B

Section B consists of simple responses on the question paper.

Answer **all** questions in the spaces provided.

Read **all** questions carefully.

Answer **all** questions.

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

Section A - Multiple Choice Questions

Answer all questions in this section (20 marks)

1. Which crop is exported by Eswatini?

- A beans
- B citrus
- C maize
- D potatoes

2. What is modern farming?

- A growing and caring for animals and vegetables
- B growing plants on a small scale for the family
- C producing large amount of food over a short time
- D producing livestock using low inputs and less work

3. What is the purpose of the National Marketing Board.

- A to advice on food preservation
- B to buy vegetable from farmers
- C to increase livestock production
- D to provide tractor hire services

4. **Fig. 4.1** shows a tool used in the garden.**Fig. 4.1**What is the use of the tool shown in **Fig. 4.1**?

- A clearing
- B digging
- C transplanting
- D weeding

5. How should pupils carry tools in the garden?

- A in a proper way
- B low by the side
- C over their head
- D over their shoulder

6. Which is the best way to support disturbed remaining seedlings after thinning?

- A to put a peg next to the seedling
- B to put grass around the seedling
- C to put soil around the stem
- D to put stones around the stem

7. When is fertilizer applied to vegetables?

- A before planting and during growth
- B before planting and at harvesting
- C during growth and at harvesting
- D during weeding and at harvesting

8. Fig. 8.1 shows a vegetable planted in the garden



Fig. 8.1

Which management practice is demonstrated in **Fig 8.1**?

- A fertilization
- B mulching
- C shading
- D weeding

9. Which is the best time for watering vegetables?

- A in the afternoon
- B in the evening
- C in the morning
- D in the night

10. What is the name of the pest which damages the leaves and developing fruits?

- A American ball-worm
- B Aphids
- C Cutworm
- D Diamond black moth

11. When is dry maize harvesting?

- A at 1-3 months
- B at 4-6 months
- C at 7-9 months
- D at 10-12 months

12. When should the next flush appear after the first harvest in mushrooms?

- A 2-4 days later
- B 4-6 days later
- C 8-10 days later
- D 12-14 days later

13. Fig. 13.1 shows planting material for a crop.



Fig. 13.1

Which crop is planted using the material in Fig. 13.1?

- A beans
- B groundnuts
- C maize
- D sweet potato

14. Which plant part absorbs nutrients and water?

- A adventitious roots
- B fibrous roots
- C root hairs
- D tap root

15. Which soil type has large and rough soil particles?

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

16. Which of the following is a component of the soil?

- A parent rock
- B subsoil
- C topsoil
- D water

17. What is the name given to a sign of soil erosion where a small channel has formed on the soil surface?

- A channel
- B donga
- C gully
- D rill

18. Fig. 18.1 shows a broiler sitting on egg to make them warm.



Fig 18.1

Which process is shown in Fig 18.1?

- A brooding
- B hatching
- C incubation
- D laying

19. Which feed must be given to broilers from day 1 to 3 weeks old?

- A finisher pellets
- B grower pellets
- C mixed fowl
- D starter mash

20. What is restricted feeding in feeding broilers?

- A feed is always available for chicks all the time
- B feed is given in a measured amount
- C feeding chickens with correct type of feed
- D feeding chickens with greens all the time

Section B - Structured Questions

Answer all questions in this section (80 marks)

1. (a) Define agriculture.

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

(b) Explain any **two** disadvantages of traditional farming.

(i)
.....
(ii)
..... [4]
[5:marks]

2. (a) Describe land tenure.

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

(b) State any **two** advantages of using the Swazi Nation Land (SNL).

(i)
(ii) [2]

(c) Explain the term landlord in the land tenure system.

.....
.....
..... [2]
[5:marks]

3. (a) State any **two** reasons why people produced hybrid seeds.

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

(b) Outline any **one** safety precaution followed when handling farm tools.

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

(c) Describe the uses of the following equipment in agriculture.

(i) Tractor-drawn plough

.....

(ii) Automatic feeder

..... [2]

[5:marks]

4. (a) Outline the roles of the following activities in land preparation.

(i) Cultivation

.....

.....

(ii) Harrowing

.....

..... [2]

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

.....

.....

..... [2]

(c) Explain how the presence of livestock in a farm can improve vegetable production.

.....

.....

..... [2]

[6: marks]

5. (a) State the benefits of a good soil in vegetable production.

(i).....

.....

(ii).....

..... [2]

(b) State two types of windbreakers for a vegetable garden.

(i).....

(ii)..... [2]

(c) Explain any **one** disadvantage of having a garden in a slopy land.

.....

.....

..... [2]

[6:marks]

6. (a) Describe any **one** importance of record keeping in a farm.

..... [1]

(b) A farmer had a broiler business in a farm. Sort the given information in the table below.

100 chickens bought at E900.00, 2 bags starter mash at E260.00 each, 3 bags grower mash at E280.00 each, 3 bags finisher at E300.00, 95 broilers sold at E70.00 each.

Financial Record					
Income	E	C	Expenses	E	C
Total income			Total expenditure		

[4]

(c) Calculate the profit/loss?

..... [1]

[6:marks]

7. (a) Describe crop rotation.

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

(b) State **two** regions where sweet potatoes can grow best.

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

(c) Explain why beans are included in a crop rotation.

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

[5:marks]

8. (a) Fig. 8.1 shows a vegetable pest



Fig. 8.1

Name the pest indicated in Fig. 8.1

..... [1]

(b) State **two** reasons for weeding a vegetable garden.

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

(c) Describe the following terms:

(i) Pesticide

.....
.....

(ii) Disease

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

[5:marks]

9. (a) State any **two** methods of harvesting maize.

(i).....

(ii)..... [2]

(b) State any **two** problems of harvesting when it is raining.

(i)

(ii) [2]

(c) Explain how beans are harvested.

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

[6:marks]

10. Fig. 10.1 shows different types of mushrooms.

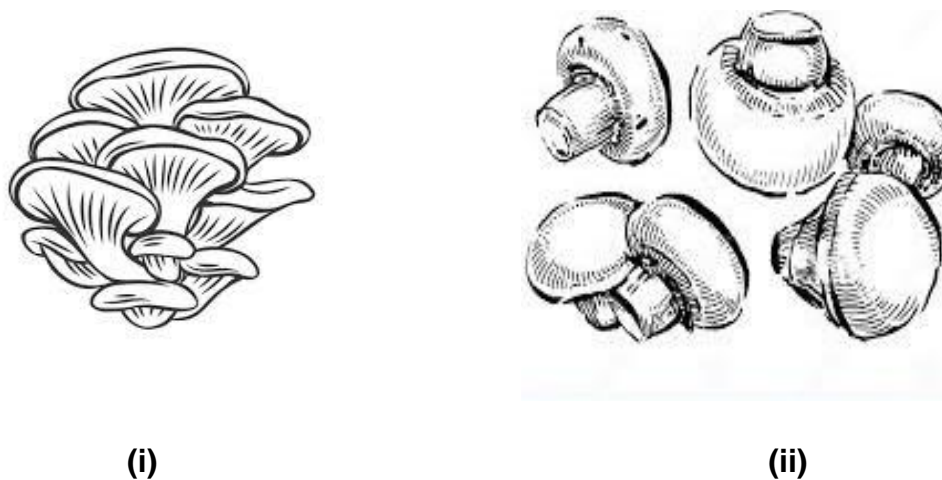


Fig. 10.1

(a) Name the types of mushrooms indicated in Fig. 10.1.

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

(b) Describe **three** safety precautions followed when growing mushrooms.

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

[5: marks]

11.(a) Outline the **three** things which make the summer season suitable for growing crops.

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

(b) Explain why it is important to cover the fertilizer with soil before planting.

.....

 [2]

[5:marks]

12.(a) State **two** things required by green plants in the presence of light to make food?

(i)

(ii) [2]

(b) Explain the importance of nutrients in plants growth.

.....

.....

..... [2]

(c) Explain the symbiotic relationship between plants, people and animals.

.....

.....

..... [2]

[6: marks]

13.(a) Describe soil texture.

.....

..... [1]

(b) State any **two** advantages of growing vegetables on the A horizon.

(i).....

(ii)..... [2]

(c) Explain any **one** negative effect of growing crops in a clay soil.

.....

.....

..... [2]

[5: marks]

14. (a) State any **one** disadvantage of flood irrigation on the soil.

..... [1]

(b) Explain any **two** ways of preventing soil erosion in a field during cultivation.

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

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

[4]

[5:marks]

15. (a) State any **three** importance of indigenous chickens

(i).....

(ii).....

(iii)..... [3]

(b) Explain how chicken litter can be kept dry.

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

[5: marks]

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