



# 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**

November 2019  
1 hour 45 Minutes

**READ THESE INSTRUCTIONS FIRST**

1. Write your name, Candidate Number and Centre 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 **best** answer and write the letter corresponding to your choice in **soft pencil** in the box provided.

**EXAMPLE:** 40. A chicken has ...wings.

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

A
---

5. Section B consists of simple responses on the question paper.
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 **16** printed pages.

**SECTION A- MULTIPLE CHOICE**

Answer all questions in this section (20 Marks)

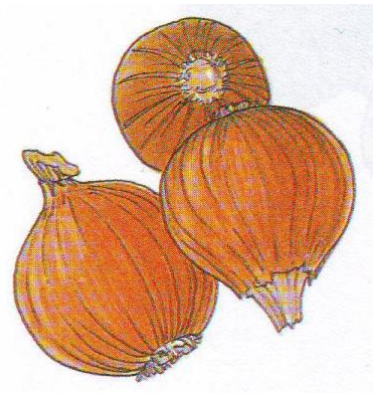
1. Which garden tool is used for mixing fertilizer in a planting hole?

- A. fork
- B. hand fork
- C. spade
- D. trowel

2. What do we call the system of allocating land in the country?

- A. land allocation
- B. land distribution
- C. land tenure
- D. land terracing

3. Figure 3.1 shows different vegetables.



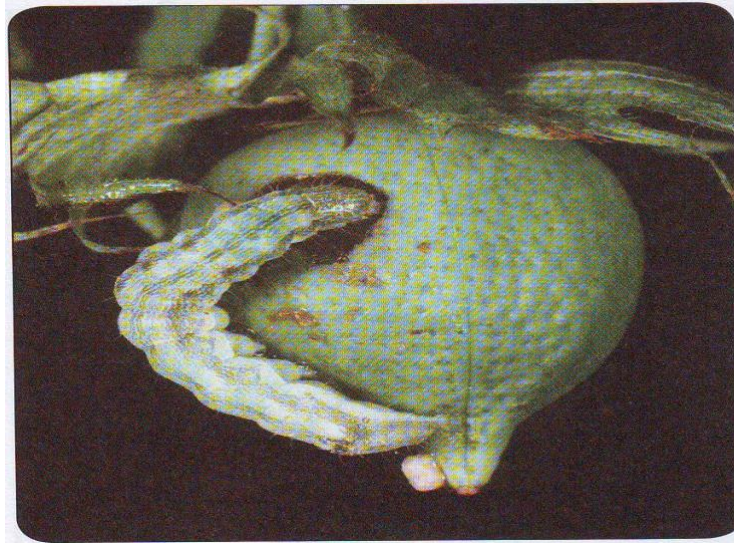
**Fig. 3.1**

Which group of vegetables are represented by Fig. 3.1?

- A. bulb vegetables
- B. fruit vegetables
- C. leaf vegetables
- D. root vegetables

4. What is the function of a brooder in broilers?
- A. provide feed
  - B. provide heat
  - C. provide light
  - D. provide shelter
- 
5. Which farm record shows the value of the produce?
- A. diary
  - B. financial record
  - C. maintenance record
  - D. production record
- 
6. Which of the following vegetables can be transplanted?
- A. beans
  - B. carrot
  - C. maize
  - D. onion
- 
7. Which of the following is a benefit of mulching?
- A. add nutrients to plant
  - B. controlling pests
  - C. prevent weed growth
  - D. providing shade
- 
8. Which type of weeds depend on other plants for their nutrients?
- A. dangerous weeds
  - B. invasive weeds
  - C. parasitic weeds
  - D. poisonous weeds
-

9. Figure 9.1 shows a diagram of a pest feeding on a plant.



**Fig. 9.1**

What is the name of this pest in Fig. 9.1?

- A. american bollworm
- B. aphid
- C. cutworm
- D. diamond back moth

10. Which is the best time for watering young plants in a seedbed?

- A. during noonday
- B. during the night
- C. in the evening
- D. In the morning

11. Figure. 11.1 below shows a pupil working in the garden.



**Fig. 11.1**

What is the activity that is being performed by the pupil in Fig. 11.1?

- A.** mulching  
**B.** thinning-out  
**C.** transplanting  
**D.** weeding
12. Which environmental condition should be considered when harvesting vegetables?
- A.** climate  
**B.** cold  
**C.** heat  
**D.** weather
13. How long does it take to grow one crop of mushroom?
- A.** 15 days  
**B.** 30 days  
**C.** 45 days  
**D.** 60 days

14. Which of the following crops is a legume?
- A. beans
  - B. carrots
  - C. maize
  - D. rice
- 
15. Which measuring rule is used to mark plots accurately?
- A. 1, 3, 2 rule
  - B. 3, 2, 3 rule
  - C. 3, 4, 5 rule
  - D. 5, 6, 4 rule
- 
16. What is the name of the second layer in a soil profile?
- A. bedrock
  - B. parent rock
  - C. subsoil
  - D. topsoil
- 
17. Which type of feed is given to broilers which are 4-5 weeks old?
- A. finisher
  - B. grower
  - C. pellets
  - D. starter
- 
18. Which nutrient is found in limestone ammonium nitrate (LAN)?
- A. nitrogen
  - B. phosphorus
  - C. potassium
  - D. zinc
-

19. Which agricultural product is imported by Eswatini?

- A. meat
- B. oranges
- C. rice
- D. sugar

20. Which substances are absorbed by the plants roots?

- A. air and light
- B. air and water
- C. nutrients and air
- D. nutrients and water

**SECTION B – SHORT ANSWERS**

Answer all questions in this section (80 Marks)

- 1. (a) (i) Which cereal crop is mostly grown in Eswatini?  
..... [1]
- (ii) What is a cash crop?  
.....  
..... [1]
- (b) List any **two** activities you would do to ensure proper care for your garden tools.  
(i) .....  
(ii) ..... [2]
- 2. (a) Explain why a vegetable garden site should have the following characteristics.  
(i) Good soil.....  
.....  
(ii) Water source.....  
.....  
(iii) Flat land .....  
.....  
(iv) Sunlight .....  
..... [4]



- (b) Why is it important to water plants before thinning?
  - (i).....
  - (ii)..... [2]

- 3. (a) Name **two** types of organic fertilizer.
  - (i) .....
  - (ii) ..... [2]

- (b) What is the effect of too much fertilizer application to plants?
  - (i).....
  - .....
  - (ii).....
  - ..... [2]

- (c) Explain the importance of light to a plant?
  - .....
  - ..... [2]

- 4. (a) What is a disease?
  - .....
  - ..... [1]

- (b) What are the effects of weeds on plant growth?
  - (i).....
  - .....

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

(c) Explain how you would control aphids in cabbages.  
.....  
.....  
.....  
..... [2]

5. (a) State any **three** requirements of a fruiting room?  
(i) .....  
(ii).....  
(iii)..... [3]

(b) Give **two** signs that shows that mushrooms are ready for harvesting.  
(i).....  
(ii)..... [2]

6. (a) Why are indigenous chickens important?  
(i) .....  
(ii) ..... [2]

**(b)** State any **two** bad habits that may take place in a poultry house.

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

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

**(c)** Describe how the litter can be kept dry in a poultry house.

.....

.....

.....

..... [2]

**7. (a)** State any **two** things that helps you decide which crop to grow in a particular place?

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

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

**(b)** Explain why do farmers grow crops?

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

.....

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

..... [4]

**8. (a)** What is the recommended spacing between rows when planting green beans?

..... [1]

**(b)** State any **two** disadvantages of delayed harvesting of beans.

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

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

**(c)** How would you test whether maize cobs are ready for harvest?

.....

.....

.....

..... [2]

**9. (a)** What is a soil profile

.....

..... [1]

**(b)** What are the characteristics of top soil?

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

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

**(iii)** ..... [3]

**(c)** Explain how the soil structure can be improved?

.....

.....

.....

..... [2]

10. Figure 10.1 shows groundnuts after harvesting.



**Fig. 10.1**

- (a) (i) Name the structure shown in Fig. 10.1  
 ..... [1]
- (ii) Why is a space left in the centre of the structure shown in Fig. 10.1?  
 .....  
 ..... [1]
- (iii) How would you prevent rain from getting into the structure in Fig. 10.1?  
 .....  
 ..... [1]
- (b) Give any **two** traditional ways of storing shelled maize.  
 (i) .....  
 (ii) ..... [2]

11. (a) State any **two** ways in which chemicals kill insects.

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

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

(b) Give **two** natural ways of controlling pests and diseases.

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

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

(c) Explain the danger of using farm chemicals to the farmer?

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

12. (a) Why should farmers share knowledge?

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

(b) Outline any **four** characteristics of modern farming.

(i) .....

(ii) .....

(iii).....

(iv)..... [4]

13. (a) What is soil erosion?

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

(b) How can a farmer protect the soil?

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

(c) Outline any **two** reasons why soil conservation is important.

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

14. (a) Why it is important to transplant seedlings with soil around the roots?

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

(b) State **three** reasons for harrowing?

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

15. (a) What is a tool?

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

(b) Figure 15.1 shows an agricultural equipment.



Fig.15.1

(i) Name the equipment shown in Fig. 15.1

..... [1]

(c) Explain any **three** benefits of technology in a farm.

(i) .....

.....

(ii) .....

.....

(iii).....

..... [3]

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