

EXAMINATIONS COUNCIL OF ESWATINI Junior Certificate Examination

CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
AGRICULTURE			516/02
Paper 2			October/November 2023
Additional materia	l: calculator		1 hour 45 minutes

READ THESE INSTRUCTIONS FIRST

Write your name, centre number and candidate number on the answer sheet provided. Answer all questions on the question paper by completing each question as instructed.

This paper consists of **two** sections. **Section A and Section B. Section A** consist of simple response questions worth 50 marks. **Section B** consist of **three** essay questions of which you are expected to answer any **two** essays worth 25 marks each.

Read all questions carefully Answer on the lines provided.

For Examiner's Use		
Section A		
Section B	1	
	2	
	3	
Total		

Section A: Simple Response Questions

Answer all questions in this section (50 Marks)

(a) Describe the role of intercropping in improving crop yield.

[2]

(b) Explain the benefits of planting grass in a crop rotation.

[Total: 4 marks]

2 Fig. 2. 1 is a diagram of a farm implement.



Fig. 2.1.

(a) Name the implement in Fig. 2.1.

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Describe how a wheelbarrow is used.
[2
c) Discuss the importance of using tools that are in good condition.
[2
[Total: 5 marks
a) State any two benefits of a green house in vegetable production.
(i)
(ii)[2 b) Explain how desertification can be reduced.
[2
[Total: 4 marks
Name the term which describes the balance of available nutrient in the soil and nutrient required by the plant.
) State the role of lime in clay soils with a pH of 5.5-6.5.
[1
Explain the process of green manuring in a field.
[2

5	(a)	Explain the process of respiration in plants.	
			[2]
	(b)	Discuss the effects of light on the rate of respiration.	
			[2]
		[Total: 4 mar	ks]
6	(a)	Give any one method of curing sweet potatoes.	
	(,		[1]
	(b)	Explain the procedure for testing if tobacco leaves are ready for harvest.	[,]
			[2]
		[Total: 3 mar	
			•
7	(a)	State the importance of a footbath in a poultry house.	[4]
	(b)	Describe how the age of chickens affects the size of eggs in layers.	[1]
	()		
			[2]
			[-]

	(c)	Explain any one way of preventing canni	balism in poultry.	
			[Total: 5 ma	rks]
8	(a)	Give any two types of pheromones in be	e keeping.	
		(i)		
				[2]
	(b)	Describe supplementary feeding in bees		
				•
				-
				[2]
			[Total: 4 ma	rks]
9	(a)	Table 9.1 shows organs and functions of Complete the following information:	parts of the digestive system of a rabbits.	
		ORGAN	FUNCTION	
		Small intestines	(i)	
		Ceacum	(ii)	
		(iii)	Absorption of water	
				[3]

Table 9.1

	(b)	Explain why rabbits feed on their night faeces.	
			[2]
		[Total: 5 mail	
10	(a)	State any two factors to consider when buying a breeding stock of goats. (i)	
		(ii)	[2]
	(b)	Explain the importance of hoof-trimming.	
		FT-4-l- 4 mon	
11	(a)	Describe any one way of controlling invasive plant in a pasture.	KSJ
			[2]
	(b)	Explain the benefit of planting kikuyu and rye grass together in a pasture.	
			[2]
		[Total: 4 mar	ksl

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12	Describe two marketing processes that promote a product.
	(i)
	(ii)
	[4]
	[Total: 4 Marks]

Section B: Essay Questions

Answer any two questions in this section (50 Marks)

 Topic Introduction (description of pest) Two things to consider on the method of the describe with an example the following of the biological of the cultural and of the chemical of the description of the descriptio	of control to use [2] g pest control methods: [6] esticides work [2]	1] 1] 2]
Ways in which systemic and contact pePreparation for sprayingUsing a sprayer	esticides work [2	
Any three safety precautions		6] 2] 5] 5] 3]

For
Examiner's
use

9	

[Total: 25 Marks]

۷.	Describe the production and marketing of noney using the guidelines below.	
	 Topic Introduction (description of honey bee production) Importance of honey bees Factors considered when establishing an apiary Marketing of honey: 	[1] [1] [5] [5]
	- packaging - labelling details - grading - promotion strategies	[3] [4] [2] [4]

[Total: 25 Marks]

3.	Describe the killing and dressing of rabbit using the guide below.	
	Topic Introduction (description of rabbits production) Maturity for slaughter (weeks and kg) Preparations for killing Methods of killing Dressing of the rabbit after killing Packaging and storage	[1] [2] [2] [4] [13]

[Total: 25 Marks]