

EXAMINATIONS COUNCIL OF ESWATINI Junior Certificate Examination

CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
AGRICULTU	IRE		516/02
Paper 2			October/November 2021
			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.

You may use a calculator Read all questions carefully. Answer on the lines provided.

For Exam	iner's	Use
Section A		
Section B	1	
	2	
	3	
Total		

Section A: Simple Response Questions

Answer all questions in this section (50 Marks)

1 Fig. 1.1 shows farm tools.



Fig 1.1

	(a)	Name tool A.
		[1]
	(b)	State the function of tool B.
		[1]
	(c)	Outline any two safety precaution followed when using tools.
		(i)
		(ii)
		[Total: 4 marks]
2	(a)	State the importance of including grass in a crop rotation.
		[1]
	(b)	Explain any two benefits of intercropping in vegetable production.
		(i)
		(ii)
		[4]

3	(a)	State how lime improves clay soils[1]
	(b)	Describe a crumby soil structure.
		[2]
	(c)	Describe a loamy textured soil.
		[2]
4	Fig.	[Total: 5 marks] 4.1 is a diagram showing measurements of slope.
		20 cm 8 m
	(-)	Fig. 4.1
	(a)	Calculate the percentage slope of distance PQ.
	(b)	Describe how class VIII land should be used.

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5	(a)	Describe the signs which shows that groundnuts are ready for harvesting.	
			[2]
	(b)	Discuss any one effect of excessive rainfall on plant growth and development.	
			[2]
		[Total: 4 marl	
6	(a)	State the function of perches in layer production.	[1]
	(b)	Outline any two management practices that prevent egg eating.	
		(i)	
		(ii)	[2]
	(c)	Explain why eggs should be stored away from onions.	
		[Total: 5 mar	[2] ks]
7	(a)	Name the bee hive which produces less honey.	
			[1]
	(b)	State the reason why the queen bee lay drones.	[1]
	(c)	Describe a method of catching a swarm.	
			[2]

8 (a)	State the cattle breed which produces creamy milk.	[1]
(b)	Outline any one importance of castration in cattle.	
(c)	Describe the process of artificial insemination in cattle.	[1]
	[То	
9 (a)	State any two factors to consider when buying rabbits.	
	(i)(ii)	
(b)	Explain the process of mating in rabbits.	
	[Tot	al: 4 marks]
10 (a)	Explain how meat production can be improved in Swazi goat.	
(b)	Explain the purpose of increasing the feed for goats before kidding.	
		[2]
	ITot	al: 1 markel

11 (a)	State the benefit of reseeding a pasture.	
		[1]
(b)	Explain the effects of understocking a pasture.	
		[2]
	[Total: 3 m	arks]
12 (a)	Outline the importance of market research in agricultural production.	
	(i)	
	(ii)	[2]
(b)	Explain any one benefit of processing an agricultural product.	
		[2]
	[Total: 4 m	arks]

SECTION B: Essay Questions

Answer any two questions in this section (50 Marks)

1.	Describe the production of fruit crops using the guidelines below.	
	 Introduction (fruit crop production in Eswatini) Importance of fruit crops Propagation methods Preparation of the planting hole 	[1] [1] [2] [4] [8] [9]

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[25 Marks]

2.	De	escribe broiler production using the guidelines below.	
	•	Topic of the enterprise Introduction (description of broilers) Factors considered when choosing a site for a chicken house Description of features of the house State the types of feed at different stages of growth Describe the vaccination programme Practices that prevent diseases	[1] [1] [6] [4] [3] [3] [7]

[25 Marks]

•	Topic of the essay	[1]
•	Introduction (description of compost)	[1]
•	Importance of compost	[3]
•	Preparation of a heap compost	[10]
•	Management of the compost	[4]
•	Signs and period of maturity of heap compost	[4]
•	Advantages of heap compost over pit compost	[2]
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[25 Marks]

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