

EXAMINATION NO.:

THE MALAWI NATIONAL EXAMINATIONS BOARD

2019 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

AGRICULTURE

(100 marks)

Subject Number: M012/I

Monday, 24 June

Time Allowed: 2 hours

8:00 - 10:00 am

PAPER I

Instructions

- 1. This paper contains 12 printed pages. Please check.
- This paper has two sections, A and B.
 Section A has ten questions and Section B, three questions.
- 3. Answer all questions in the spaces provided.
- Write your Examination Number on all pages.
- 5. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns		
1				
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Section A (70 marks)

Answer all the questions in the spaces provided in this section.

1.	a.		any two ways in which supplying is important in crop action.
			(2 marks)
	b.	Descr	ribe any one way of achieving the following in maize production:
		(i)	Selfing of parents
		(ii)	Cross – pollinating of in- bred lines
	8		
			(2 marks)
	c.	Expl plant	ain any two ways in which living organisms help to maintain t nutrients in the soil.
		•	
	*		(4 marks)

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	d.	Name any two materials used as substrates in mushroom pro-	duction.
		- maire stalk	
		- bangna leaves	
			(2 marks)
2.	a	Explain any one way in which each of the following farming technologies would improve food security:	
		(i) Irrigation	
			(2 marks)
		(ii) Pest and disease management	
			(2 marks)
	b	Explain any two ways in which use of animal power increas food supply in Malawi.	
			(4 marks)
3	а	State any one way of controlling scales in a mango orchard.	
			(1 mark)

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(Con	tinued)		
b.	Using a well labelled	l diagram illustrate a three tire r	narketing channel.
•			
			ž.
		7)
			(3 marks)
		1	(5 marks)
			,
			(2 marks)
. d.	If a farmer planted 8 calculate the germina	00 seeds in his field and only 20 ation percentage.	
d.			
d.			
d.			

(2 marks)

		EXAMINATION NO.:
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1	. (Cor	itinued)
	d.	Name any two materials used as substrates in mushroom production.
		- Mair Stalk
		- bangna leaves
		(2 marks)
2.	a	Explain any one way in which each of the following farming technologies would improve food security:
		(i) Irrigation
		(2 alta)
		(2 marks)
		(ii) Pest and disease management
		(2 marks)
		•
	b	Explain any two ways in which use of animal power increases food supply in Malawi.
	2	100d suppry in
		(4 marks)
3	а	State any one way of controlling scales in a mango orchard.

Continued/...

(1 mark)

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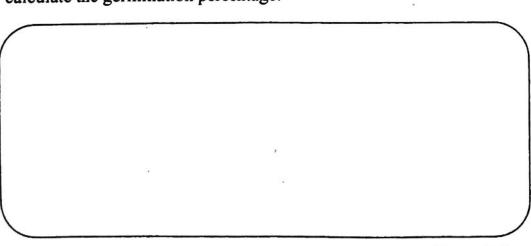
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2	C	
3. (Continued)	١

Using a well lab				
			.7	
		ī		
				(3 marks)
land given that	imber of maize s seeds are plant ing station is 0.9	ed per statio		

(2 marks)

d. If a farmer planted 800 seeds in his field and only 200 seeds germinated, calculate the germination percentage.



(2 marks)

Figure 1 is a diagram showing a product of a human activity. 4.



Figure 1

	(2 marks
r	
Explain any two on agricultural	o ways of overcoming the impact of the human activity production.
Explain any two on agricultural	o ways of overcoming the impact of the human activity production.
Explain any two on agricultural	o ways of overcoming the impact of the human activity production.
Explain any two on agricultural	o ways of overcoming the impact of the human activity production.

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5.	a	In M	Ichere village the prices of maize were very high but the and did not change.
		(i)	Name the degree of demand for maize in Mchere village.
			(1 mark)
		(ii)	Give a reason for the answer in 5 a (i).
	b.	State	(2 marks) e any two ways in which elasticity of demand is important.
	c.	Stat	te any one way of improving output from each of the following roes of farm power:
		(i)	Drought animals
		(ii)	Solar (1 mark)
			(1 mark)

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6.	а.	Explain any one way in which knowledge of "signs of heat" in a cow important to a farmer.
		(2 marks)
	b.	Name two diseases which cause lameness in sheep.
		(2 marks)
7.	a.	State any two agricultural development agencies which provide credit Services in Malawi.
	b.	Describe the first two stages in the scientific approach to agricultural research.
		- Identify a problem for example afterlien that an facel
		by a farmer can be of the so many of fertilizer available so
		- Propose a hypothesis. This is on answer that will be
		proved a disapproved.
		(4 marks)
•	a.	State any three conditions for getting a loan from commercial banks.
P.) le.	clearing state the aims of the experiment. (3 marks) experimental design (treatment, replication, randomisation)

Agricultural research: (15 a careful study is done in order to find and report new knowledge in order to increase agriculture knowledge and solve a problem.

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8.	(Continued)
	(Communeu)

State the three stages of marginal yield in the law of "diminishing marginal returns."			
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9. Figure 2 is a diagram showing the digestive system of a farm animal. Use it to answer questions that follow.

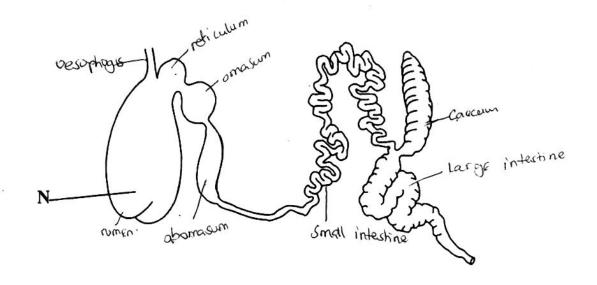


Figure 2

a.	Name the type of farm animals which have this digestive s	ystem.
	- ruminant animal	(1 mark)
b.	Mention any two nutrients digested in the part labelled N.	,
		(2 marks)

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9.	(Continued)
	(Continued)

9.	(Continued)
	c.	Explain any one way in which the digestive system is suitable for grass as a feed.
		·
	d.	Name one disease associated with the digestive system.
		(2 marks)
10.	a	State any two ways in which "steaming up" of the cow during the dry period is important.
	b.	(2 marks) Explain any two ways in which Agricultural Research is important to the growing population.
		It generates now knowledge through development
		of new principles in agriculture.
		- 12 depends beferive maring producting crop soil
		animals from part and disease. (4 marks)
		iii. It leads to improved breeds of livertice.
		iv it bring about new variables of crops.
		1. 11 improved the audity and safety of and I

1. It improves the quality and safety of products. 41. It deimines best nutrition for the former.

AGRIWLTURAL PROBLEM ON WHILH LAW OWE i. Land husbandy: Knd comphiles to be fellie with our using feithtizer. ii crops husbandry practice: weeding feither application Peut and disease control.

Livestock: breach incorder to find the chease continued...

and high production breach found out high productions vanishing 4. Lives stock husbandy New Feeling method having

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Section B (30 marks)

Answer all the three questions in this section

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12.	Describe any five factors that farmers should consider when harvesting mushroom.	
(2.)		
	#	

(10 marks)

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(10 marks

END OF QUESTION PAPER
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