# THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

## **AGRICULTURE**

Subject Number: M012/II

Tuesday, 27 June

Time Allowed: 1 h 30 min sessions

10 am onwards

#### PAPER II

#### Practical

(40 marks)

#### Instructions

- This paper contains 6 printed pages. Please check.
- This paper has two sections: A and B.
- Answer all questions in the spaces provided.
- Write your Examination Number on all 4. pages in the spaces provided.
- In the table provided on this page, tick against the question number you have answered.
- At the end of the examination, hand in your paper to the invigilator.

Number Number	Tick if answered	Do not wri	te in these
will alone the	of department	A Tree Prince	
1	To roding	1 (14)	
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3			
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1	OF	24	PAPER	S
	088	676	9048	

e.

### Section A (20 marks)

1. The **Table below** shows results of an experiment on production of eggs produced from 50 layers that were exposed to different duration of light.

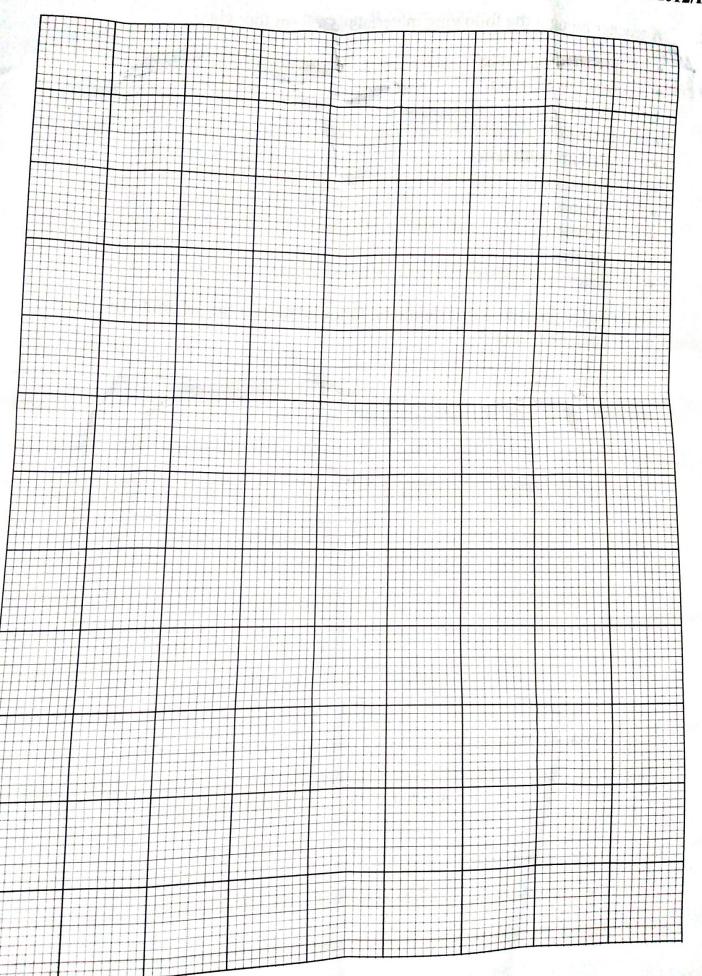
Duration of light (h)	Number of eggs produced
d digital di light (II)	10
0	30
12	50
12	60
20	80
24	80

		(2 marks)
	64010 to to 000	
d.	Give a reason for the answer in c.	
	To have been a	(1 mark)
c.	Identify the recommended duration of light for egg production.	ne syella
	le me sulce es de page, circle de la compansa de la	(1 mark)
	(ii) Duration of light for the chicken to lay 20 eggs.	nakes ma
	Managara de spanie de la provincia de la composición del composición de la composici	(1 mark)
	(i) Number of eggs laid when light duration was 10 hours.	
b.	Use the graph to estimate the following:	
a.	Using a graph paper provided on <b>page 3</b> , plot a graph of number produced against the duration of light.	of eggs (4 marks)

State the economic principle being demonstrated by the graph.

(1 mark)

Continued/...



on the survey	EXAMINATION NO.: SIMBI Co Page 4 of 6
A teacher brought the follo	wing materials to a form four class:
• prepared substrate	9
water in a bucket	
strings	
drum	
platform with holes	
Plastic sheet	
3 stones	
firewood	회사에 많이 일하는 일하는 사람들이 모든 것이다.
matches water	
nushroom production.	should be followed to treat the substrate for
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#### Section B (20 marks)

3.	You are provided	with soil	samples	labelled X	and V.
			COLUMN TO TOO	Tabelled A	and I

#### **Procedure**

- 1. Take the soil sample labelled X and place it in between your thumb and forefinger.
- 2. Rub the soil in between the thumb and forefinger.
- 3. Feel the texture of the soil as you rub.
- 4. Repeat procedure 1 to 3 with soil sample Y.

a.	(i)	Which soil sample would be ideal for establishing surface irrigation?	
			(1 mark)
	(ii)	Give a reason for the answer in 3 a (i).	.9
	C:		(2 marks)
b.	Give	e any <b>one</b> way in which manure application would improve:	
	(i)	structure of soil sample X.	b
	(;;)	pH of soil sample Y.	(2 marks)
	(ii)	pri or som sampre	
		er amende to been abliffed flouby Rood assistant Astrone	(2 marks)
c.	(i)	Which soil sample would be recommended for application inorganic fertilisers.	of
			(1 mark)
	(ii)	Give a reason for the answer in c (i).	
			(2 marks)

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Continued/...

a.	Identify specimens which are concentrates.	
	A STATE OF THE PARTY OF THE PAR	
	designation agreement in the control of the land formation and give	
	Assume that the second of the	
		(2 mar
b.	Identify a feed which is an additive.	
		(1 mar
c.	Give any two ways in which the additive identified in (b) is impositely	ortant.
		(2 mark
d.	Name any <b>two</b> nutrients found in feed <b>R</b> .	(2 mark
d.	Name any <b>two</b> nutrients found in feed <b>R</b> .	(2 mark
d.	Name any <b>two</b> nutrients found in feed <b>R</b> .	
d. e.	Name any <b>two</b> nutrients found in feed <b>R</b> .  Identify any <b>two</b> feeds which could be used for steaming up a cov	(2 mark
		(2 mark
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NB: This paper contains 6 printed pages.

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