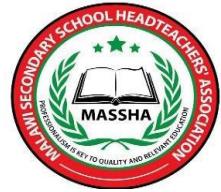


**CENTRAL EAST EDUCATION DIVISION****2024 MALAWI SCHOOL CERTIFICATE MOCK EXAMINATION****AGRICULTURE****Subject Number: M012/I****Friday, 15 March****Time allowed: 2 hours
08:00 – 10:00 am****PAPER I****(100 Marks)****Instructions**

- 1. This paper contains 11 printed pages.**
Please check.
- This paper has two sections; **A** and **B**.
Section A has 10 (ten) questions and
section B has 3 (three) questions.
- Answer **all** questions in the spaces
provided.
- Write your name on **all** pages.
- 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.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

Section A: (70 Marks)

Answer all questions in this section

1. a. State any **two** ways in which controlling stocking rates in pastures is important

(2 marks)

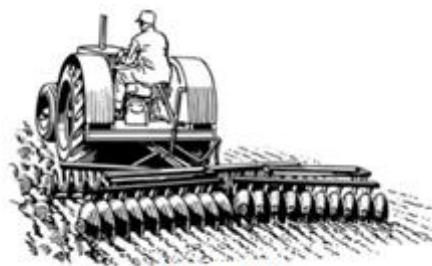
- b. Explain any **two** disadvantages of broadcasting method for sowing pasture seed

(4 marks)

2. Figures below is a diagram showing sources of power used on different farms



Farm J



Farm K

- a. Identify the source of power used on

- (i) Farm J

(1 mark)

- (ii) Farm K

(1 mark)

Name: _____ School: _____

- b. State any **two** limitations of using the source of power on farm **K** by smallholder farmers

(2 marks)

- c. Explain any **two** ways of improving output for the source of power used on farm **J**

(4 marks)

3. a. Name any **one** sucking insect pest of mangoes

(1 mark)

- b. State **two** ways of controlling insect pests in mangoes

(2 marks)

- c. Give the procedure for processing unripe mangoes into chutney

(5 marks)

Name: _____ School: _____

4. a. Describe any **two** bad farming practices which destroy soil structure

(4 marks)

- b. Describe the procedure for determining soil pH using pH meter

(3 marks)

- c. Explain any **two** ways in which leaching of cations can affect nutrient status of the soil

(4 marks)

5. A farmer observed that the cow had a swollen and an inflamed udder

- a. Name the disease that the cow was suffering from

(1 mark)

- b. State any **one** way in of controlling the disease mentioned in a

(1 mark)

Name: _____ School: _____

- c. Explain any **two** characteristics of cattle breeds to be selected for beef production

(4 marks)

6. Mr Banda bought Irish potatoes from Mr Chitsulo's farm and sold them all to Thope trading company. The Irish potato were later bought by vendors who in turn sold them to different households in the city.
- a. Produce a marketing channel for the Irish potato. Include all agencies involved in the marketing channel.

(5 marks)

- b. Name the type of marketing channel

(1 mark)

- c. State any **two** roles of Thope trading company in the marketing of irish potatoes

(2 marks)

Name: _____ School: _____

7. a. Explain the steps involved in ‘scarification’ as a method of pasture seed treatment

(3 marks)

- b. Describe any **two** factors that affect quality of conserved pasture

(4 marks)

8. a. State the age of puberty for each of the following animals

- (i) Nannies

(1 mark)

- (ii) Bulls

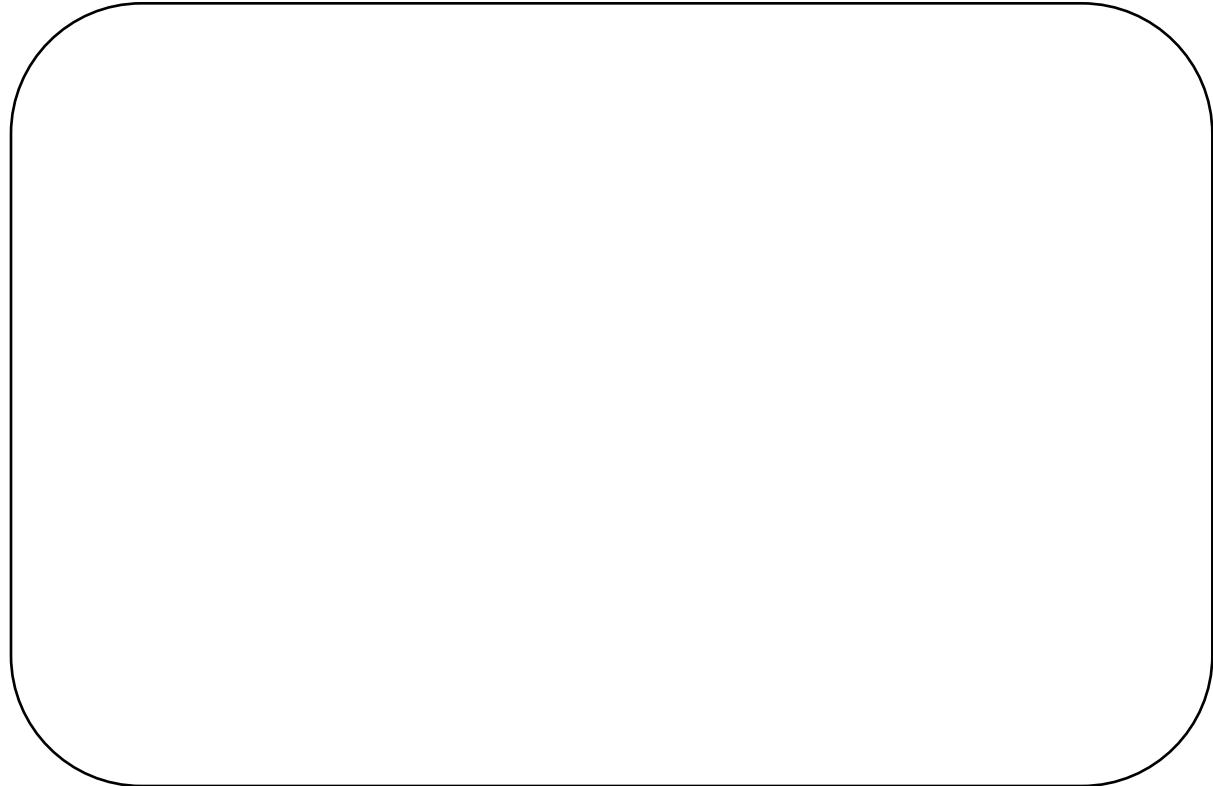
(1 mark)

- b. What is the difference between ‘crossbreeding’ and ‘outbreeding’

(1 mark)

Name: _____ School: _____

- c. A farmer wishes that one of his cows gives birth on 31 January 2025. When should the farmer carry out artificial insemination on the cows? Show the working in days



(3 marks)

- b. State any **two** advantages of artificial insemination

(2 marks)

9. Explain any **one** way for considering each of the following factors when mechanising a farm

- a. Size of the farm holding

(2 marks)

Name: _____ School: _____

b. Value of the crop

(2 marks)

10. Outline the phases in the oestrus cycle of a cow

(4 marks)

Name: _____ School: _____

Section B (30 Marks)

Answer all the three questions in this section

11. Explain any **five** effects of soil degradation on maize production

(10 marks)

Name: _____ School: _____

12. Explain any **five** characteristics of a good goat house

(10 marks)

Name: _____ School: _____

13. A farmer has leased a piece of land whose soil is degraded. The land is on sloppy area with terraces already constructed. The farmer has the following resources at her disposal

- Maize seed
- Beans
- Dam
- Cattle

Explain any **five** ways in which the farmer can use the available resources to increase crop production

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 11 pages