

Name _____

NKHAMENYA CLUSTER SECONDARY SCHOOLS MOCK

2021 EXAMINATIONS – FORM 4

Subject Number. M012/I

Date, 2nd August 2021

Time Allowed: 2 Hours

(1:30 – 3:30pm)

PAPER 1

(100 Marks)

(Theory)

Instructions:

1. This paper contains **13 pages**. Please check
2. Answer all ten questions in section A and all four questions in section B. The maximum number of marks for each answer is indicated against each question.
3. Answer all questions in the spaces provided.
4. Write your *name* and *school* on top of every page.
5. In the table provided on this page, tick against the question number you have answered.
6. Hand in your paper to the invigilator at the end.

Question Number	Tick if Answered	Do not write in these margins	
1			
2			
3			
4			
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9			
10			
11			
12			
13			



Section A (70 marks)

Answer all **ten** questions in this section

1. a. Explain any **one** way in which each of the following methods of pasture seed treatment is important

(i). Inoculation

(2 marks)

(ii). Pelleting

(2 marks)

- b. Explain any **one** way of improving output from animal power.

(2 marks)

2. a. Give any **two** risks that a maize farmer may face

(2 marks)



b. Explain any **two** ways that a livestock farmer can counteract risks on the farm

(4 marks)

3. Figure 1 shows an irrigation system. Use it to answer questions (i), (ii) and (iii)

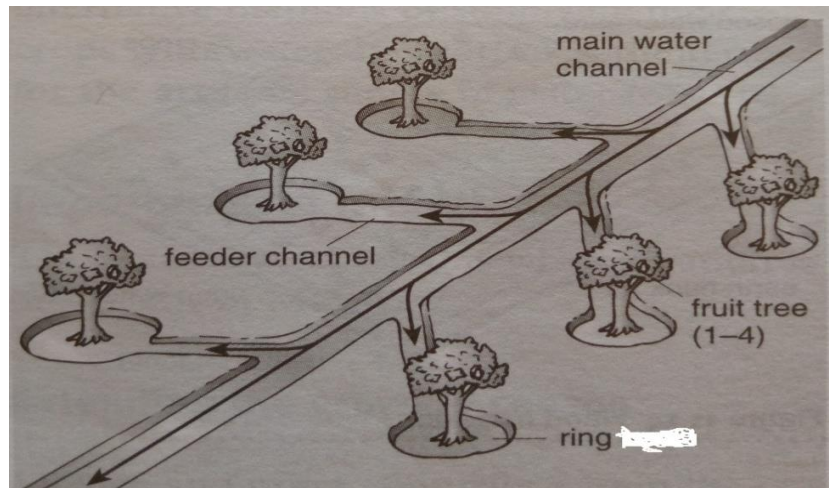


Figure 1

(i). Identify the irrigation system

(1 mark)

(ii). Name any **two** necessary conditions for establishing the system

(2 marks)

(iii). Mention any **two** limitations of the irrigation system

(2 marks)

4. a. Explain any **three** factors that contribute to the success of an agricultural cooperative

(6 marks)

b. State any **two** pests that affect mangoes

(2 marks)

c. State any **two** husbandry practices in mushroom production

(2 marks)

5. Outline the steps which are involved in processing mushing using salting method

(5 marks)



6. a. A farmer observed the following signs of a disease in a cow

- High fever
- Blisters on tongue and mouth
- Difficulties in eating

Use the information to answer questions (i), and (ii)

(i) Identify the disease which attacked the cow

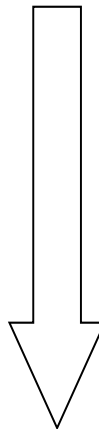
(1 mark)

(ii) State **two** ways of controlling the disease

(2 marks)

b. The following diagram shows an example of a breeding system in cattle. Use it to answer the questions that follow.

BROTHER X SISTER



OFFSPRING

i. Identify this type of breeding in livestock.

(1 mark)

ii. Explain any **two** advantages of the type of breeding identified in (a).

(4 marks)

c. **Figure 2** shows two breeds of cattle labelled P and Q. use it to answer the questions that follow.

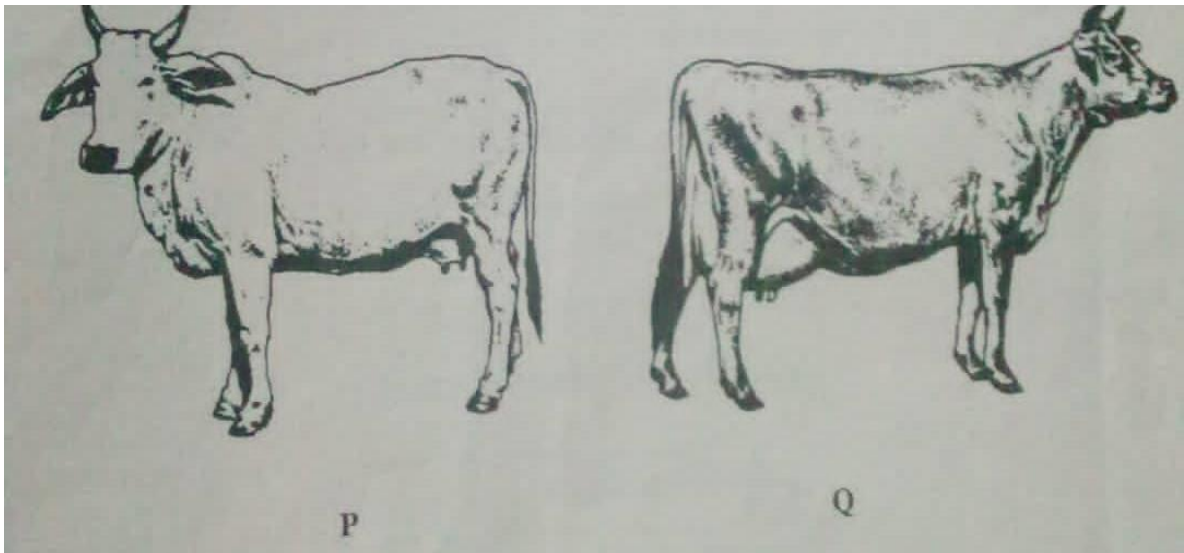


Figure 2

i. Identify the dairy breed in **figure 2**.

(1 mark)

ii. State any **two** qualities you have used to make your choice in question (i).

(2 marks)

iii. State any **two** diseases that attack cows only.

(2 mark)

7. b **Figure 3** shows a graph of an economic principle. Use it to answer the questions that follow.

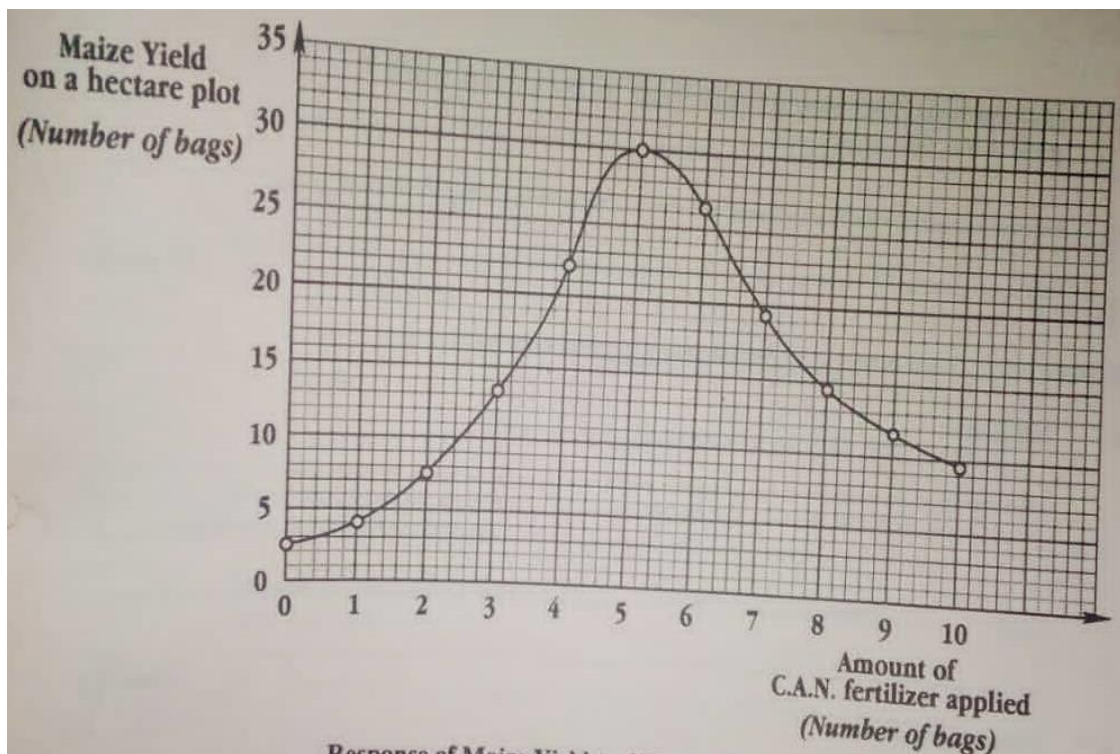


Figure 3

i. What was the yield of maize when no C.A.N. was applied?

(1 mark)

ii. Name the economic principle which is being illustrated in the figure above.

(1 mark)

iii. Explain any **two** ways in which the principle in **(ii)** can help a farmer to increase maize yield.

(4 marks)

8. a. Explain any **one** importance of weeding in maize production.

(2 marks)

b. State **two** factors that help to expand international trade in Malawi.

(2 marks)

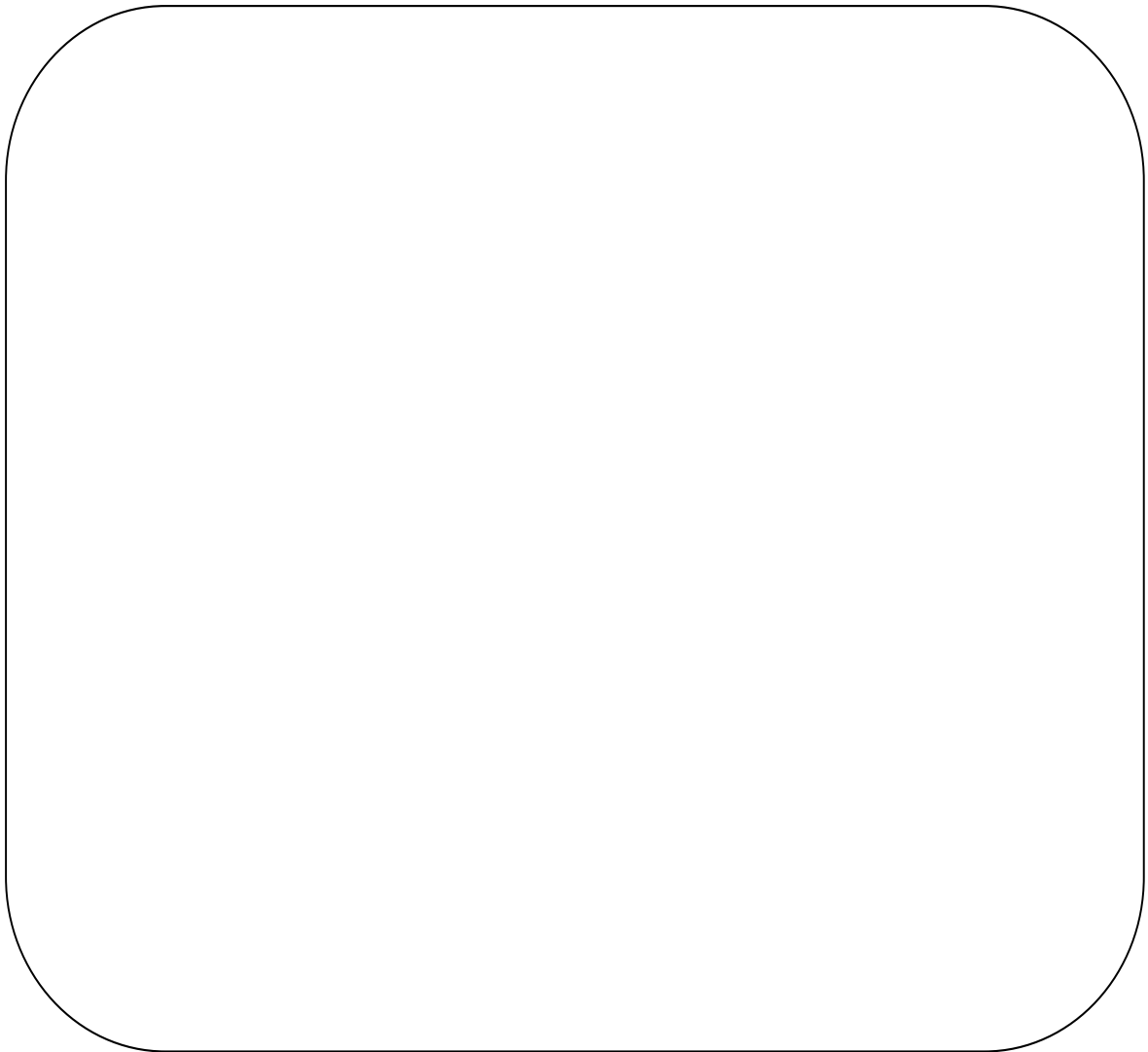
c. Mention any **one** factor which should be considered when mechanizing a farm.

(1 mark)

9. a. State any **two** examples of environmental interference in agricultural experiments

(2 marks)

- b. Calculate price elasticity of supply for beans at Mzuzu market when the price changes from k100 to k120 per kg resulting in a change in the quantity supplied from 5600kg to 5900kg.



(4 marks)



c. State any **one** method of land drainage

(1 mark)

d. Explain any **two** ways in which soil consistency affects crop production

(4 marks)

10. a. Explain any **one** way in which each of the following activities in agricultural experimentation is important:

i. observation and measuring plants in the net plots

(2 marks)

ii. Analysing data

(2 marks)



Section B (30 marks)

Answer all **three** questions in this section.

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

[illegible]

(10 marks)



12. Describe any **five** limitations of organic farming.

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(10 marks)



13. With an aid of a well labelled diagram describe the functions of any **four** parts of the reproductive system of a hen

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 13 printed pages

