NAME: _____CLASS__

2017LIKANGALA CLUSTER MOCK EXAMINATION

AGRICULTURE

Date: Friday, 5th May, 2017.   **Subject Number: M021/I**
                                                     Time Allowed: 8:00-10:00

PAPER I

THEORY
(100 Marks)

Instructions

1. This paper contains **11 pages**, please check.
2. This paper has <u>two</u> sections, **A** and **B**. Section. **A** has <u>eight</u> questions and section **B** has <u>four</u> questions.
3. Answer **all** questions in the spaces provided.
4. Write your **Name and class** on all pages.
5. In the table provided on this page, **tick** against the question number you have answered.
6. 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			
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12			

Turn Over

SECTION A
(60 Marks)

1. (a) Define oestrus

_____

_____1 mark

(b) State any **two** advantages of colostrum to calves

_____

_____

_____2 marks

(c) Distinguish between flushing and steaming up

_____

_____1 mark

2. (a) State any **two** conditions that satisfy a plant nutrient to be essential

i.   _____

      _____

ii.   _____

      _____2 marks

iii.

(b) Mention any **one** way in which fixation cause depletion of a plant nutrient from the soil

_____

_____1 mark

(c) Explain any **two** ways in which living organisms can help to maintain plant nutrients in the soil

_____

_____

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_____

_____4 marks

3. (a) Give any **two** local varieties of mangoes

_____

_____

_____2 marks

(b) i. Name any **one** sucking insect pest of mangoes

_____

_____1 mark

ii. Explain any **one** way in which insect pest named in b(i) can damage
Mangoes

_____

_____

_____2 marks

(c) Explain any **one** way of controlling the sucking insect pest in mangoes

_____

_____

_____2 marks

4. The table below shows marketing costs of pine apples. Use it to answers the
question that follow:

Marketing Channel	Charges	Market Price
1. Farmer	-	K 22,000.00
2. Middle man		-
• Transport	K 2,000.00	
3. Processing company		
• Processing	K 800.00	-
• Canning	K 400.00	-
• Profit	K5, 000.00	-
4. Retailer		
• Transport	K 1,500.00	
• Advertising	K 600.00	
• Profit	K 4,500.00	

5. (a) Explain any **two** advantages of "improved pasture" over natural pasture.

_____
_____
_____
_____
_____4 marks

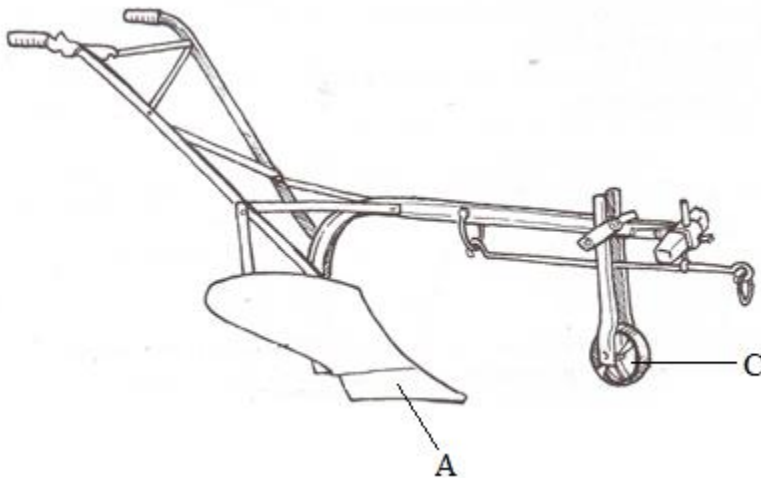(b) Describe the following criteria when selecting improved grasses and legumes.

i. Compatibility with desired species

_____
_____2 marks

ii. Proposed method of utilization

_____
_____2 marks

6. Figure 1 is a diagram of an implement. Study it and answer the questions that follow

(a) State the function of the parts labelled A and C

A: _____

C: _____2 marks

(b) State any **two** advantages of using the implement in the figure
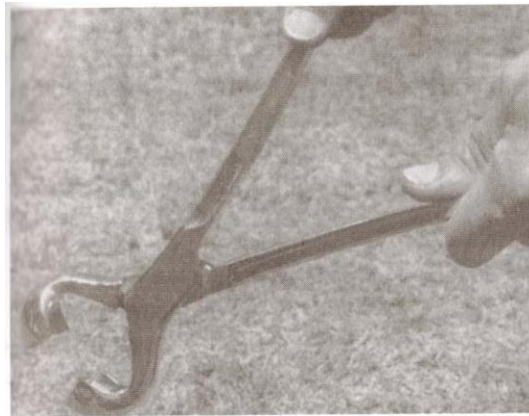
i. _____

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ii. _____

_____2 marks

(c) Explain why the farmer should consider the following factors when mechanizing the farm

i. Technical Knowledge

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_____2 marks

ii. Land tenure system

_____

_____2 marks

7. Figure 2 is a tool used in animal production

(a) Name the tool

_____

_____1 mark

(b) Describe how the tool is used in livestock management

_____

_____

_____2 marks

(c) Explain any **one** way in which each of the following factors would affect milk yield

    i.   Age of the animal

_____

_____2 marks

    ii.   Milking technique

_____

_____2 marks

8. Form three students of Chichiri Secondary School carried out an experiment on different maize varieties

(a) Mention **three** factors that would appear in their plan for the experiment

    i.   _____

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    ii.   _____

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    iii.   _____

_____

(b) State any **two** reasons of randomizing the order of operations when carrying out an experiment.

    i.   _____

_____

    ii.   _____

_____2 marks

(c) Give any **two** reasons why it is necessary to report experiments.

    i.   _____

_____

    ii.   _____

_____2 marks

NAME_____CLASS__

(d) Describe the following concepts in the experiment

    i.   Data analysis

_____

_____

_____2 marks

    ii.   Sample plants

_____

_____

_____2 marks

SECTION B

(40 marks)

Answer all the four questions in this section.

9. Mr Phiri, a farmer in Chikwawa has a problem of dry spell. He then decided to use irrigation as a way of addressing the problem. However, he doesn't know how many times and when to water the crops. Advise him by explaining five factors that determine the frequency and timing of watering.

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_____10 marks

10. With the aid of a well labeled diagram, describe the reproductive system of a bull

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_____10 marks

11. Describe an experiment that can be carried out to determine the texture of a soil sample using sieving method

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_____10 marks

12. How is the plunder of government money termed as "cash gate" in a country can negatively affect the agricultural sector. Suggest five reasons.

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_____10 marks

END OF QUESTIONS PAPER