

NAME: _____ INDEX NO.: _____

ADM. NO. _____ CLASS: _____ Date: _____

AGRICULTURE

PAPER 2

4431/2

4MCK JOINT EXAM 2016

AGRICULTURE PAPER 2

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided above.
2. This paper consists of three sections
3. Answer all the questions in section A and B and any other two questions in section C.
4. Answers must be writes in the spaces provided.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 15	30	
B	16 - 19	20	
C		20	
		20	
TOTAL SCORE		90	

SECTION A

1. a) Give **two** causes of soft shell in eggs. (1 marks)

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.....

2. a) State **two** conditions that make it necessary to feed bees. (1 mark)

.....
.....

b) Give **three** reasons for weighing livestock at weaning stage. (1½ marks)

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.....

3. Name **two** causes of piglet mortality. (1 mark)

.....
.....

4. a) Name **three** features of good rabbit hutch. (1½marks)

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.....

b) Give **two** reasons for treating timber used in construction of farm building. (1 mark)

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.....

5. List **three** reasons for maintenance of farm structures. (1 mark)

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.....

6. Differentiate between **harvesting** and **cropping** as used in fish production. (2 marks)

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7. Outline **four** ways which farmers can control mastitis in a heard of dairy animals. (2 marks)

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.....

8. a) Name **three** tools that are used in laying foundation on a farm building. (1½ marks)

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.....
.....

b) Give **three** factors that lower the quality of concrete. (1½ marks)

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.....

9. Write the meaning of the following term as used in livestock production. (½ mark)

a) Steer

.....
.....

10. State **four** methods of maintaining good health in livestock. (2 marks)

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.....

11. State the condition under which a farmer would prefer to use an ox-cart instead of tractor drawn trailer. (1 mark)

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.....

12. a) Give **three** management practices carried out in sheep during preparation for tugging. (1½ marks)

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.....
.....

b) Name **two** causes of low libido in bucks. (1 mark)

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.....

13. List **two** factors to consider when grading eggs for marketing. (1 mark)

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.....

14. Give **two** qualities of good wool.

(1 mark)

.....
.....

15. a) Name **two** factors which would be considered when selecting dairy goats for breeding.

(1 mark)

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.....

b) State **one** advantage for each of the following practices in livestock production. (2 marks)

i) Debeaking:

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.....

ii) Dehorning:

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.....

iii) Hoof trimming:

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.....

iv) Docking in female lambs:

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.....

16. Give **three** marketing problems affecting dairy farming in Kenya.

(1½ marks)

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.....

17. Name **three** factors considered when formulating livestock ration.

(1½ marks)

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SECTION B: (20 Mks)

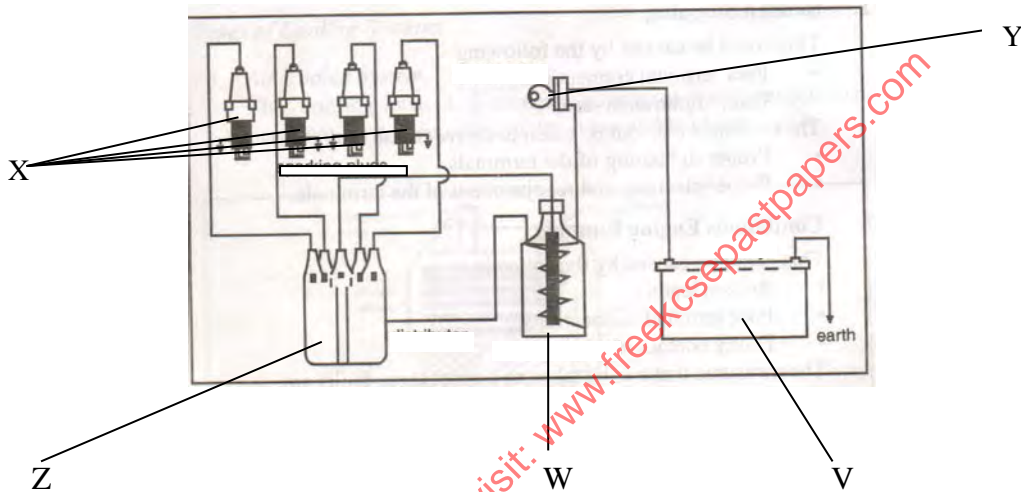
Answer all the questions in this section in the spaces provided.

18. Given that in three years a heifer increases its weight by 160kg after consuming 320kg of food, work out the feed conversion ration. (fer) 2mks

.....

.....

19. Study the diagram below of a tractor system and answer the questions that follow:



a) Name the system. 1mk

.....

b) Identify parts labeled V, W, X, Y and Z. 2¹/₂ MKS

- V -
- W -
- X -
- Y -

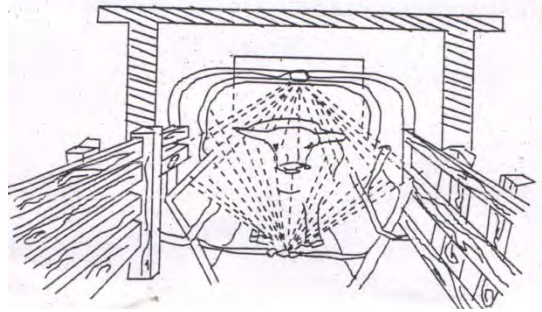
c) What is the function of part B in the system. 1mk

.....

d) Name other two systems of a tractor. 2mks

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.....
20. The diagram below shows a farm structure. Use it to answer the questions that follow:



i) Identify the structure.

1/2 mk

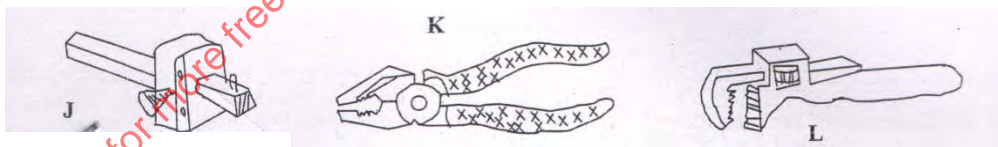
ii) Identify the practice being carried out.

1/2mk

iii) Outline two advantages of using the above structure.

2mks

21. Study the diagrams of tools labeled JK and L shown below and answer questions that follow:



a) Name the tools.

J -

K -

L -

b) State the functions of the tools:

J -

K -

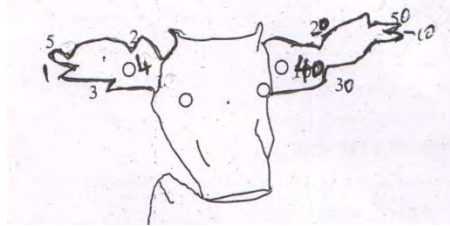
L-.....

c) Give one maintenance practice of the tool L.

$\frac{1}{2}$ mks

.....

22. The diagram below illustrates a method of identification in livestock production. Use it to answer the questions that follow:



a) i) Name the type of identification illustrated above.

$\frac{1}{2}$ mks

.....

ii) Give the identification number of the animal illustrated in the diagram above.

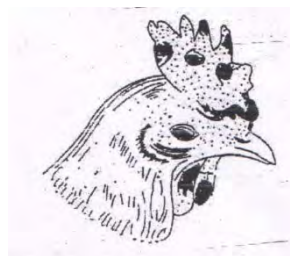
$\frac{1}{2}$ mks

.....

iii) Using diagram, illustrate how you can identify animal 24 and 36 using the above key. 2mks

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23. The diagram below shows the head of a chicken having symptoms of a certain poultry disease.



.....

.....

i) Identify the disease.

$\frac{1}{2}$ mks

.....

ii) Give **two** reasons why the disease is of economic importance to the farmer.

1 mk

.....
.....
iii) Give **two** methods of controlling the disease.

1mk

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.....
SECTION C: (40 Mks)

Answer any two questions in this section in the spaces provided after question.

24.a) Describe the management practices that a farmer should carry out to improve milk production in a low yielding herd of dairy cattle. 10mks

b) Discuss bloat in livestock under the following subheadings.

i) Causes

3mks

ii) Symptoms

3mks

iii) Treatment and control measures.

4mks

25.a) Outline the advantages of farm mechanization in modern farming. 6mks

b) Explain the factors considered before buying a tractor for use as a source of power on the farm. 6mks

c) Name four systems of a tractor engine. 4mks

d) State four limitations of animal power. 4mks

26.a) Explain the methods used to control internal parasites in livestock. 10mks

b) Describe five reasons why bees may abscond from a beehive. 5mks

c) Outline the preparation a farmer may take before the arrival of day old chicks. 5mks

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