

NAME: INDEX NO:

SCHOOL: DATE :

CANDIDATE'S SIGNATURE:

443/2
AGRICULTURE
PAPER 2
JULY / AUGUST 2014
TIME: 2 HRS.

KURIA EAST SUB-COUNTY JOINT EXAMINATIONS COUNCIL 2014

Kenya Certificate of Secondary Education (K.C.S.E.)
AGRICULTURE
PAPER 2
TIME: 2 HRS.

INSTRUCTIONS TO CANDIDATES:

- (i) Write your **Name**, **Index Number** and **School** in the spaces provided above.
- (ii) Sign and write the **Date** of Examination in the spaces provided **above**.
- (iii) This paper consists of **THREE** sections **A**, **B** and **C**.
- (iv) Answer **ALL** questions in Section **A** and **B**.
- (v) Answer any **TWO** questions in section **C**.
- (vi) All answers should be written in spaces provided.

FOR EXAMINER'S USE ONLY

| SECTION | QUESTION | MAX. SCORE | CANDIDATE'S SCORE |
|---------|--------------------|------------|-------------------|
| A | 1 – 18 | 30 | |
| B | 19 – 22 | 20 | |
| C | | 20 | |
| | 23 – 25 | 20 | |
| | Total Score | 90 | |

This paper consists of 8 printed pages. Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

SECTION A (30 MARKS)

Answer ALL Questions in the Spaces Provided

1. What is "Dry cow therapy?" (1mk)
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.....
2. Outline **four** possible behaviours of chicks in a brooder when the temperatures are high. (2mks)
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3. A school farm has a deep litter poultry house measuring 9m x 3.5m. If the space allocated per bird is 0.27m² how many birds can the school keep? (1mk)
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4. Name **two** tools that are use for checking the straightness of a wall when laying bricks during construction. (1mk)
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.....
5. State **four** advantages of bucket-feeding a calf. (2mks)
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6. Outline **four** factors that should be considered when selecting dairy goats for breeding. (2mks)
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7. Outline **four** causes of infertility in dairy cattle. (2mks)
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8. Name **four** breeds of rabbits. (2mks)
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9. Give a set of tools that are used for bloodless castration of male calves. (2mks)
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10. State **four** advantages of a spray race over a plunge dip. (2mks)

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11. Name **two** methods that are used in selection of cattle for breeding. (1mk)

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12. Give **four** symptoms of calf scours. (2mks)

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13. Give any **two** demerits of electricity as the main source of power on a farm. (1mk)

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14. Name the part of the digestive system of poultry which acts as the true stomach. (1mk)

.....

15. Outline **four** factors that determine the nutritional requirements of an animal. (2mks)

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16. Outline **four** uses of the gearbox in a tractor. (2mks)

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17. List **four** reasons why livestock should be kept healthy. (2mks)

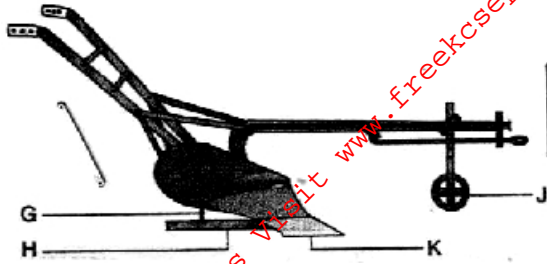
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18. State **four** harmful effects of ticks on livestock. (2mks)

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SECTION B : (20MARKS)
Answer all questions from this section.

19. Study the diagram of an ox-drawn plough shown below and answer the questions that follow.



(a) Name the parts labelled G, H, J and K. (2mks)

- G:
- H:
- J:
- K:

(b) State **one** maintenance practice that should be carried out on each of the parts labelled J and K. (1mk)

- J:
- K:

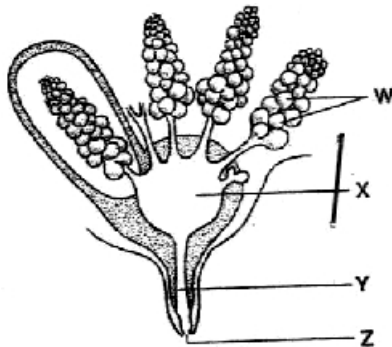
(c) State the functions of the parts labelled H and J. (1mk)

- H:
- J:

(d) What adjustment should be carried out on the implement so as to reduce the depth of ploughing? (1mk)

.....

20. The diagram below shows the structure of the udder of a cow.



(a) Name the parts labeled W, X, Y and Z. (2mks)

- W:
- X:
- Y:
- Z:

(b) What is milk let down?

(1mk)

.....
.....

(c) Name **two** hormones that control milk let down in a dairy cow.

(2mks)

.....
.....

21. The following illustration represents a certain practice carried out in sheep management. Study the illustration and answer the questions that follow.



(i) Identify the practice.

(1mk)

.....

(ii) Name the tool being used in carrying out the practice.

(1mk)

.....

(iii) State **two** precautions that should be taken when carrying out this practice.

(2mks)

.....

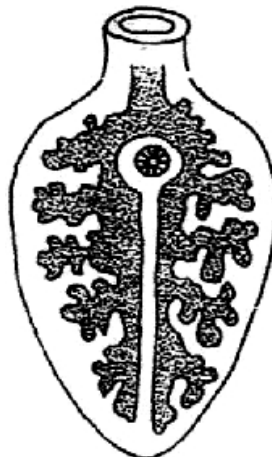
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(iv) How often should the practice be carried out.

(1mk)

.....

22. Below is an illustration of an internal parasite in livestock.



(a) Identify the parasite.

(1mk)

.....

(b) Name **one** final host for the parasite. (1mk)

.....

(c) Name the intermediate host for the parasite. (1mk)

.....

(d) State **two** measures used to control the parasite. (2mks)

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.....

SECTION C (40MKS)
Answer any two questions in this section

23. Describe the management practices carried out on ewes from preparation for mating to weaning of lambs. (20mks)

24. (a) Describe the life cycle of a two-host tick. (8mks)

(b) Discuss Newcastle disease under the following sub-headings:-

(i) Mode of transmission. (2mks)

(ii) Symptoms of attack. (5mks)

(iii) Control measures. (5mks)

25. (a) What are the advantages of a four stroke engine? (4mks)

(b) Describe the procedure followed when constructing a barbed wire fence. (8mks)

(c) Describe the digestion of grass in the rumen of a ruminant. (8mks)

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