

Name:..... ADM No:.....

Candidate's Signature:.....

Date:.....

443/2
AGRICULTURE
Paper 2
MAY/JUNE 2014
Time: 2 Hours

CROSS COUNTRY EXAM 2014
Kenya Certificate of Secondary Education
443/2
AGRICULTURE
Paper 2
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Instructions To Candidates

Write your name and index number in the spaces provided above.

Sign and write the date of extermination in the spaces provided above.

This paper consist of three sections A, B and C

Answer all the questions in section A and B and any two questions in section C.

Answer all questions in the spaces provided

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1 – 20	30	
B	21 - 26	20	
C		20	
		20	
Total Score		90	

This paper consists of 8 printed pages

Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing

SECTION A (30 Marks)

Answer all the questions in this section in the spaces provided

1. Give two uses of a rotavator. (1mk)
.....
.....
2. Give three reasons for breeding in livestock (1 ½ mks)
.....
.....
.....
3. State two advantages of Biogas instead of charcoal as a source of power on the farm. (2mks)
.....
.....
4. Outline three effects of tsetse flies on livestock. (1 ½ mks)
.....
.....
.....
5. State four mechanical methods of controlling ticks in livestock. (2mks)
.....
.....
.....
.....
6. Give the meaning of the following terms as used in livestock rearing practices.
- (a) Flushing..... (1mk)
- (b) Steaming up..... (1mk)
7. State three construction features necessary in a fish pond. (1 ½ mks)
.....
.....
.....
8. (a) Name the origin of each of the following dairy breeds
- (i) Landrace..... (½ mk)
- (ii) Hereford..... (½ mk)
- (b) Give the physical characteristics of Saddle back breed of pigs. (2mks)
.....
.....

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.....
9. Give two uses of the clutch in a tractor (1mk)

.....
.....
10. Name four viral diseases of poultry. (2mks)

.....
.....
11. Give a reason for teeth clipping in pig management. (1mk)

.....
.....
12. State two reasons for castrating male piglets in the farm. (1mk)

.....
.....
13. Differentiate between close breeding and line breeding in livestock production. (2mks)

.....
.....
14. State four signs of furrowing in sow. (2mks)

.....
.....
15. Name any two examples of two-host ticks. (1mk)

.....
.....
16. Give two uses of differential in a tractor. (1mk)

17. Give three characteristics of succulent roughage

(1 ½ mks)

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.....

18. State four reasons why a farmer would choose to use a disc plough rather than a mould board plough

(2mks)

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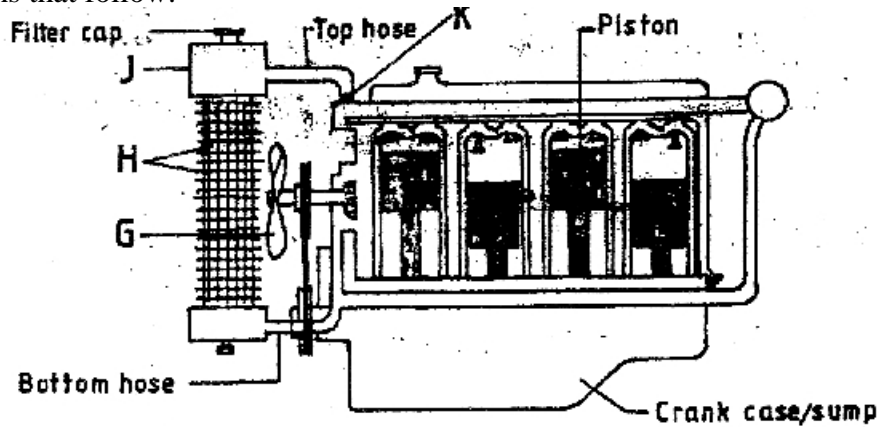
19. State the appropriate use of the following tools

- (a) Troca and Canula..... (½ mk)
- (b) Bollus gun..... (½ mk)

SECTION B (20 Marks)

Answer all the questions in this section in the spaces provided

20. The diagram below shows the cooling system of a tractor engine. Study it carefully and answer the questions that follow.



(a) Name the parts labeled G, H, J and K

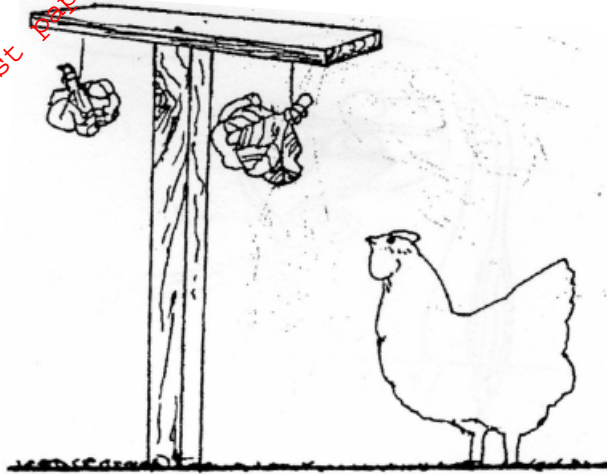
(2mks)

G.....
H.....
J.....
K.....

(b) State the functions of the parts labeled G, J and K in the cooling system. (3mks)

G.....
J.....
K.....

21. The diagram below illustrates a method of providing feedstuff to a chicken in a chicken house. Study the diagram and answer the questions that follow.



(a) (i) What type of feedstuff is illustrated in the diagram above? (1mk)

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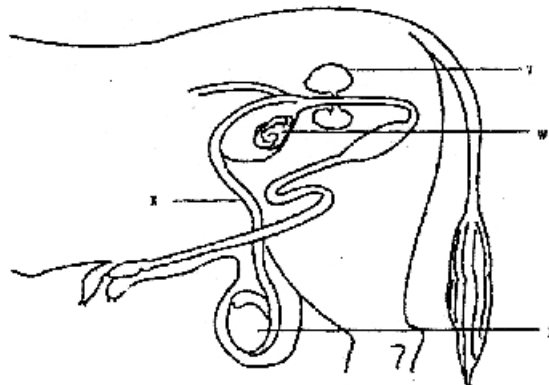
(ii) Give one reason why the feedstuff should be suspended above the height of the chicken (1mk)

.....

(iii) Give three reasons for including the feedstuff illustrated in the diagram in the diet of layers. (2mks)

.....
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.....

(b) The diagram below represents the reproductive system of a bull. Study it and answer the questions that follow.



(i) Label the parts v, w, z and x (2mks)

v.....

w.....

z.....

x.....

(ii) State the functions of v and w (2mks)

.....

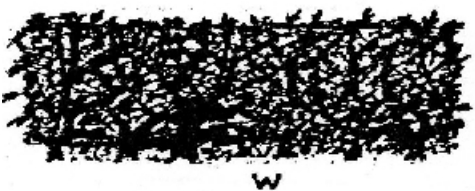
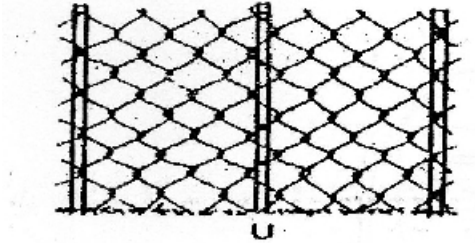
w.....

(iii) Name two examples of breeding diseases transmitted by bulls. (1mk)

.....

.....

22. The illustration below shows two types of fences. Study them and answer the questions that follow



(i) Name the type of wire fence in the diagram U above. (1mk)

.....

(b) Name the type of fence illustrated in diagram W above. (1mk)

.....

(c) Name one correct material and one tool used for fastening the wire onto wooden posts when constructing the type of fence illustrated in U above. (1mk)

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.....

(d) State three advantages that fence V may have over fence U. (3mks)

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.....
.....

SECTION C (40 Marks)

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

23. (a) Describe the preparations one would make before the arrival of day old chicks and how the chicks should be cared for the first two days. (12mks)

(b) Describe the breeding practices carried out in sheep management. (8mks)

24. (a) Describe the requirements of a calf pen. (6mks)

(b) Give the advantages of a four stroke cycle engine. (5mks)

(c) Explain nine ways in which diseases can be controlled in livestock. (9mks)

25. (a) Compare the use of ox-drawn mould board plough with that of tractor-drawn plough. (8mks)

(b) Describe the maintenance practices that should be carried out on an ox-drawn moldboard plough. (5mks)

(c) Describe black quarter/black leg disease under the following sub-headings

(i) Signs of infection. (5mks)

(ii) Control measures (2mks)

