

Name: Index no

School: Candidate's sign

Date:

443/2
AGRICULTURE
PAPER 2
JULY /AUGUST 2011
TIME: 2 HOURS

NYAMIRA DISTRICT JOINT EVALUATION TEST

Kenya Certificate of Secondary Education (K.C.S.E.)

**Agriculture
Paper 2**

INSTRUCTIONS TO CANDIDATES:

- Write your **name** and **index number** in the spaces provided.
- This paper consists of three section **A,B** and **C**
- Answer **all** the questions in section **A** and **B**
- Answer any **two** questions in section **C**.
- Answers should be written in the spaces provided in this booklet.

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-19	30	
B	20-27	20	
C	28 -70	20	
		20	
	TOTAL	90	

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

SECTION A (30 MARKS)

1. Differentiate between vectors and parasites as used in livestock health. (1mk)
.....
.....
2. State **two** qualities of clean water for livestock use. (1mk)
.....
.....
3. Suggest **three** reasons why ewe may abandon their lambs. (1½mks)
.....
.....
.....
4. a) Give **two** factors considered when siting a calf pen. (1mk)
.....
.....
.....
- b) State **two** reasons why it is necessary to have individual calf pens instead of communal calf pens. (1mk)
.....
.....
5. Name **four** causes of stress in a flock of layers. (2mks)
.....
.....
.....
6. State **four** functions of vitamins in the diet of livestock animals. (2mks)
.....
.....
.....
7. State **two** maintenance practices of a cold chisel. (1mk)
.....
.....
8. a) Give **one** reason why it is necessary to take birth weight of young animals immediately after birth. (1mk)
.....
.....
- b) Suggest **two** factors that can lead to conception failure after the females have been served. (2mks)
.....
.....
.....

9. Give **two** hormones that influence milk let down. (1mk)

10 a) State **two** functions of ventilation in a pig house (1mrk)

b) What are the uses of guard rail in a pig farrowing pen? (1mk)

11 Suggest **three** factors that make embryo transplant unpopular with many livestock farmers. (1½mks)

12. Give **three** reasons for treating timber before use. (1½ mks)

13. Outline the reason for arranging brick in overlapping manner during the construction of farm buildings. (½ mk)

14. Under what conditions would a farmer prefer to use an ox-cart instead of a tractor drawn trailer? (1½mks)

15. Name **three** different types of tools used to trim overgrown hooves in sheep. (1½mks)

16. Give **two** disadvantages of using tractor hire services instead of own tractor. (1mk)

17.State **four** factors that may lead to culling in dairy cattle. (2mks)

18. Give **four** advantages of using battery system of rearing poultry. (2mks)

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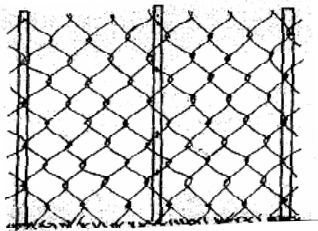
19. State **four** factors which determine the nutrient requirement in cattle. (2mks)

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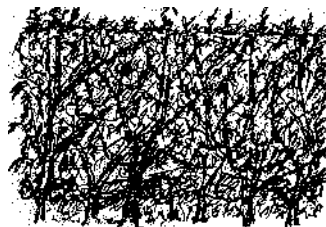
SECTION B: (20 MARKS)

Answers all questions in this section in the spaces provided.

20. Study the illustrations of fences below and answer the questions that follow.



X



Y

a) Name the type of fences illustrated above. (1mk)

X.....

Y.....

b) Name the correct tool used in the maintenance of fence Y (½ mk)

.....

c) Give the correct tool and material used to attach the wire onto the wooden post during the construction of the structure labeled X. (1mk)

Tool:

.....

Material:

.....

21. Study the chicken condition illustrated below and answer the questions that follow.



a) Identify the deficiency nutrient responsible for the condition above. (½ mk)

.....

b) Use the information given on poultry feeding below and answer the questions that follow.

Feed stuff	Protein	Price/kg
Fish meal	70%	39
Maize meal	25%	20

(i) Formulate a ration weighing 200kgs containing 15% DC Protein using the maize meal and fishmeal as the ingredients. (Use Pearson's square method.) (3mks)

22. Study diagrams of tools below and answer the questions that follow.



a) Identify the tools above. (1mk)

A.....

B.....

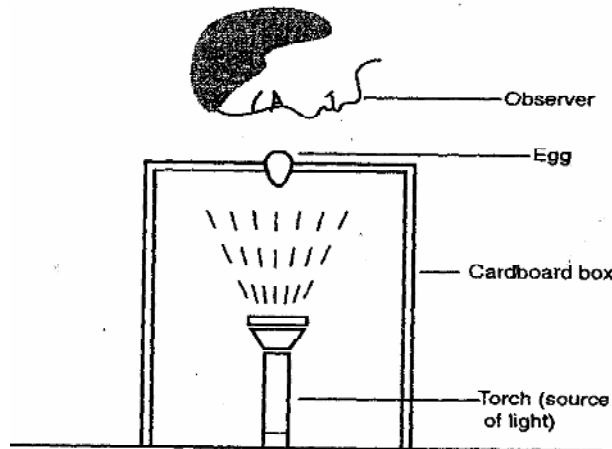
b) State the use of tool B above. (½ mk)

.....

c) Give **one** maintenance practice of tool A. (½ mk)

.....

23. Study the illustration below and answer the questions that follows.



a) Identify the practice. (½mk)

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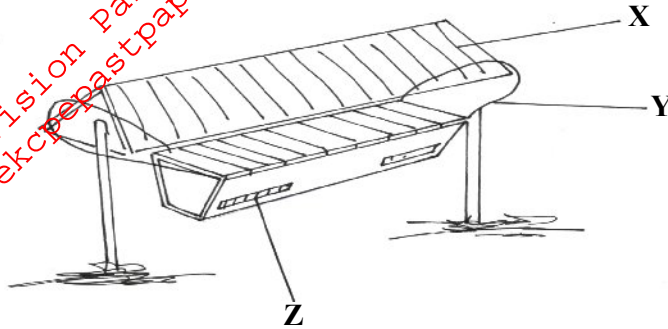
b) Why is the practice recommended for the 18th day of incubation. (½mk)

.....

c) State **two** qualities of eggs for incubation. (1mk)

.....

24. Study the diagram illustrating bee keeping structure below



a) Identify the type of hive illustrated above. (½ mk)

.....

b) Name the parts marked X and Z above. (1mk)

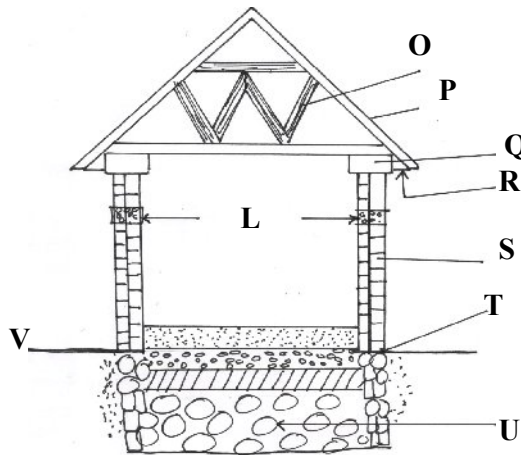
X.....

Z.....

c) Give **two** diseases that are likely to attack bees in a hive. (1mk)

.....

25. Study the illustration below and answer the questions that follow.



Name the parts labeled O,P, Q and R (2mks)

O.....

P.....

Q.....

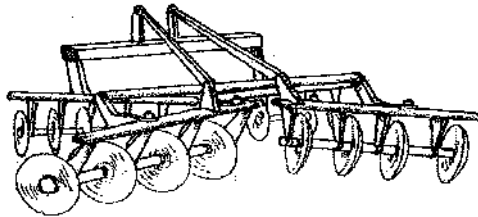
R.....

b) State any **one** material used in making the part labeled **V** and show the ratio of which it is in the mixture. (1mk)

c) What is the function of the part labeled **L** (½ mk)

d) Name **one** material and **one** tool used in putting up the part marked **S** above. (1mk)

26. Study the photograph below and answer the questions that follows.

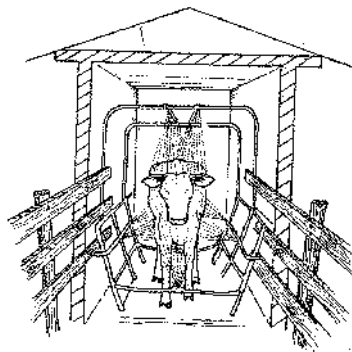


a) Identify the implement illustrated above. (½mk)

b) Classify the implement according to the mode of linkage. (½mk)

c) Give **one** advantage of using the above implement. (½mk)

27. The diagram below shows a farm structure use it to answer the questions that follow.



i) Identify the practice being carried out. (½ mk)

ii) Name the structure in which the practice is being carried out. (½ mk)

iii) Outline the advantage of the structure above over a plunge dip. (½ mk)

