

NAME..... INDEX NO.....

DATE.....

SIGNATURE.....

443/2

AGRICULTURE

PAPER TWO

JULY/AUGUST 2016

TIME: 2 HOURS

KIGUMO SUBCOUNTY CLUSTER EXAMINATION 2016

KENYA CERTIFICATE OF SECONDARY EDUCATION.

INSTRUCTIONS TO ALL CANDIDATES:

- (a) Write your name and index No in the spaces above
- (b) Sign and write the date of the examination in the space above
- (c) This paper consists of section A, B and C
- (d) Answer ALL the questions in section A and B in the space provided
- (e) Answer any TWO questions in section C in the spaces provided after question 27 .

FOR EXAMINERS USE ONLY

Section	Question	Maximum score	Candidates Score
A	1- 18	30	
B	19-24	20	
C		20	
		20	
	Total	90	

SECTION A (30MARKS)

Answer all the questions in spaces provided

1. Name the tools used for the following management practices in livestock
(a) Ear notching($\frac{1}{2}$ (mk)
(b) Deworming($\frac{1}{2}$ (mk)
2. (a) Define the term starch equivalent($\frac{1}{2}$ (mk)
.....
.....
(b) State **three** factors that affect digestibility of animal feeds (1 $\frac{1}{2}$ (mk)
.....
.....
.....
3. List **four** equipments used when harvesting honey from a Kenya top bar hive (2mks)
.....
.....
.....
4. Name two methods of brooding in poultry (1mk)
.....
.....
5. State **four** livestock management practices carried out in a crutch (2mks)
.....
.....
.....
6. State **four** short term services of a tractor (2mks)
.....
.....
.....
(b) Name four bacterial diseases of cattle that are likely to be contracted through wounds (2mks)
.....
.....
.....
7. Give **two** reasons for tooth clipping in pigs (1mk)
.....

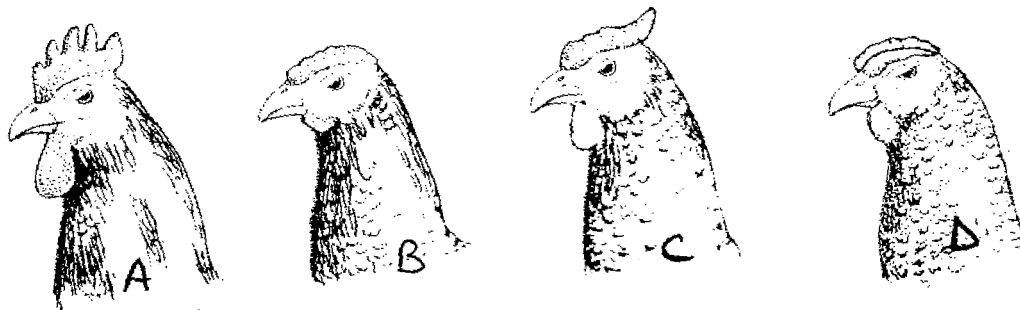
8. List **four** categories of produce stores used in the farm (2mks)
.....
.....
9. Name (2mks)
(a) Two meat sheep breeds(1mk)
.....
(b) Two methods of grafting(1mk)
.....
10. State **two** functions of the queen bee in colony (1mk)
.....
.....
.....
11. Name **four** functions of lipids in livestock feeds (2mks)
.....
.....
.....
12. What is the intermediate host of a livestock? (1mk)
.....
.....
.....
.....
13. List **two** materials used in construction of a green house (1mk)
.....
.....
14. Give **four** advantages of feeding a lamb on colostrum (2mks)
.....
.....
.....
.....
15. State **two** advantages of the disc plough brought about by the rotating disc (1mk)
.....
.....
.....

16. Name **four** species of fresh water fish reared in Kenya (2mks)
-
-
-
-
17. State **four** reasons for clipping the upper beak of a chicken in poultry management (2mks)
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-
-
-
18. Name **two** parasites that attack a bee colony (1mk)
-
-
-

SECTION B (20 MARKS)

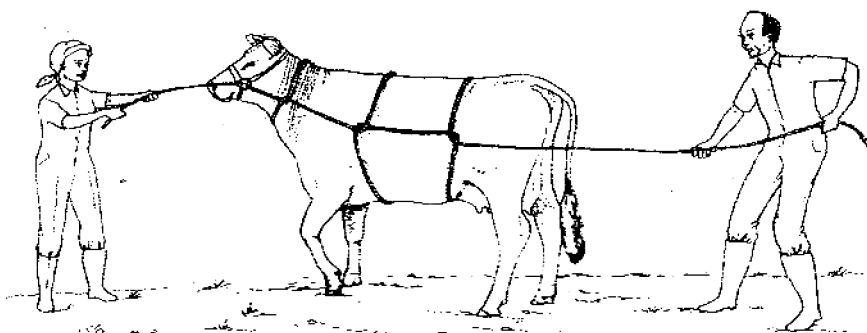
Answer all questions in this section in the spaces provided

19. Study the illustrations shown below and answer the questions that follow



- (i) Name the type of combs shown by the birds (2mks)
- A.....
- B.....
- C.....
- D.....
- (ii) State the genetic concepts that can be exploited in order to modify the above trait (1mk)
-

20. Study the illustration of a farming practice shown below



- (a)(i) Identify the above method of restraining cattle (1mk)

.....

- (ii) When is the above practice normally carried out? (1mk)

.....

21. A bull weighing 1000kg is slaughtered for sale as meat. The total dressed carcas weight was noted to be 800kg

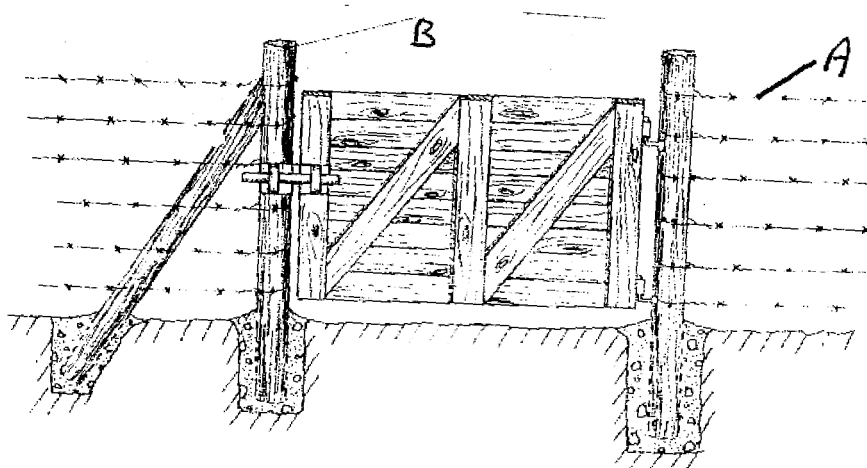
- (a) Calculate the kill out percentage of the animal . Show your working (2mks)

.....

- (b) Giving a reason state wheather the breed of the bull was the most appropriate for beef (1mk)

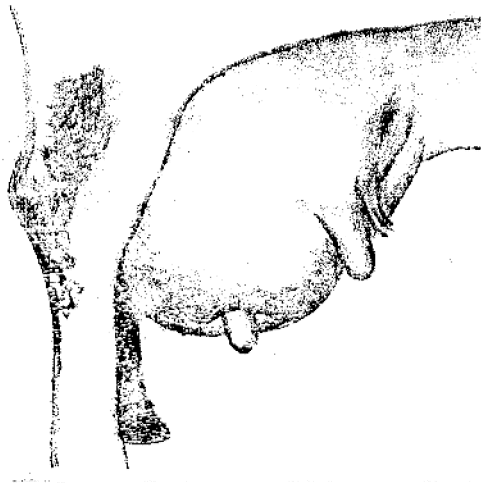
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- 22 Observe the illustration of part of a fence shown below



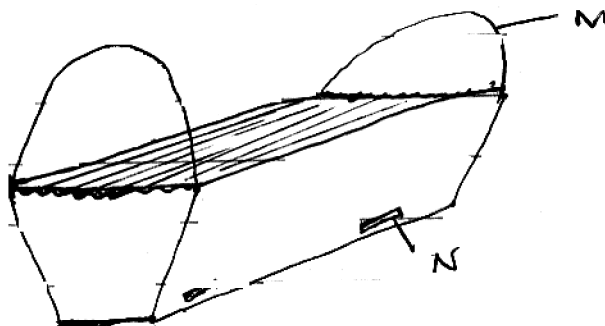
- (i) Identify the part of fence (1mk)
-
- (ii) Identify the parts labelled A and B
- A.....(1mk)
- B.....(1mk)
- (iii) Identify **one** way by which the above structure has been reinforced (1mk)
-
- (iv) Name **two** other types of dead fences (2mks)
-
-

23. Study the diagram of a sick cow's udder below and answer the questions that follow.



- (a) Identify the disease that the cow is suffering from (1mk)
-
- (b) List **three** conditions that predispose a cow to the disease in (a) above (3mks)
-
-
-

24. Study the diagram of a farm structure below and answer the questions that follows:



(a) Identify the farm structure

(1mk)

(ii) Name the part labelled M and N

(1mk)

SECTION C (40 Marks)

Answer any two questions in this section in the spaces provided after question 27

25. (a) State **five** symptoms of liver fluke infestation in livestock (5mks)
(b) Describe **five** ways in which farm structures facilitate improved agricultural production (5mks)
(c) Give the functions of any five parts of a mould board plough (10mks)
26. (a) Explain **five** factors to consider when selecting a dairy cattle breeding stock (10mks)
(b) Describe brucellosis under the following subheadings
(i) Animals effected (2mks)
(ii) Symptoms 3mks
(iii) Control (5mks)
27. (a) State **five** advantages of battery cage system of poultry management (5mks)
(b) State **five** differences between ruminant and non-ruminant digestion (5mks)
(b) Describe management of dairy calves from birth to weaning in artificial calf rearing (10mks)