

NAME

DATE

ADM NO. CANDIDATE'S SIGNATURE

443/2

AGRICULTURE

PAPER 2 (THEORY)

TIME: 2 HOURS

MBOONI WEST SUB - COUNTY FORM FOUR JOINT EVALUATION TEST, 2014

Kenya Certificate of Secondary Education

443/2

AGRICULTURE

PAPER 2 (THEORY)

JULY/AUGUST 2014

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Write your name and ADM number in the spaces provided above.
2. This paper has **THREE** sections: A , B and C
3. Answer **ALL** the questions in section A and B and any **TWO** questions in section C
4. ALL answers **MUST** be written in the spaces provided.
5. Do not remove any pages from this booklet.
6. This paper consists of 10 printed pages. Candidates should check to ensure that all pages are printed as indicated and no questions are missing

FOR EXAMINER'S USE ONLY

	Questions	Maximum score	Candidate's score
A	01 - 16	30 marks	
B	17 - 20	20 marks	
C	21 - 23	40 marks	
Total score			

SECTION A (30 MARKS)

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

1. Give two effects of inadequate rainfall on livestock production (2marks)
.....
.....
2. State two roles of the queen in a colony (1mark)
.....
.....
3. Name three diseases transmitted by keds in sheep (1½ marks)
.....
.....
.....
4. State three periods of specialised feeding in livestock (1½ marks)
.....
.....
.....
5. State four reasons why a farmer should breed his animal (2marks)
.....
.....
.....
.....
6. List four practices in livestock production that may be observed as an art (2marks)
.....
.....
.....
.....
7. Name the tools used to remove excess gasses accumulated in the rumen of cattle (1mark)
.....
.....
8. Mention four control measures undertaken to control brucellosis in cattle (2marks)
.....
.....
.....
.....

9. Name two factors that predispose a cow to mastitis

(1mark)

.....

.....

10. List two ways that can be used to improve the utilization of crop residue by livestock

(1mark)

.....

.....

11. State four functions of oiling farm machines

(2marks)

.....

.....

.....

.....

12. Give three routes through which disease causing organisms enter into the body of livestock animals

(1½ marks)

.....

.....

.....

13. State four observations on the behaviour of chicks under excess heat in the brooder

(2marks)

.....

.....

.....

.....

14. Differentiate between

i) Gilt and sow

(1mark)

.....

.....

ii) Bullock and steer

(1mark)

.....

.....

15. Give the mineral whose deficiency in livestock animals results to the following disease condition

(2marks)

i) Head reaction in chicks

.....

.....

ii) Sway back in lambs

.....

.....

iii) Curfed toe paralysis

.....

.....

iv) Soft shelled eggs

.....

.....

16. Highlight three factors considered when formulating a pig ration (1½ marks)

.....

.....

.....

17. State any two physiological conditions of livestock that may be assessed to determine the health status of the animal (1mark)

.....

.....

18. Name four functions of rumen in ruminant animals (2marks)

.....

.....

.....

.....

19. State two benefits of controlling parasitic organisms in livestock (1mark)

.....

.....

SECTION B (20 MARKS)

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

20. The diagram below illustrates a certain practice carried out in sheep management. Study carefully and answer the questions that follow



i) Identify the practice illustrated above

.....

.....

ii) State two precautions a farmer should put into consideration when carrying out this practice. (2marks)

.....

.....

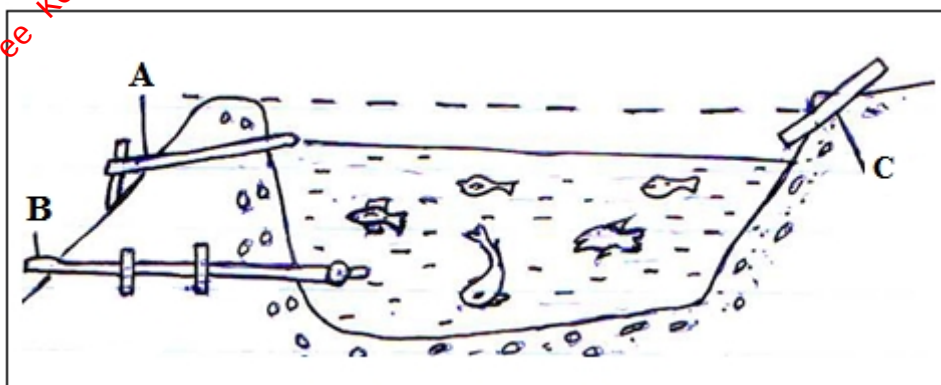
iii) How often should the practice be carried out?

(1mark)

.....

.....

21. The diagram below shows a farm structure, study it carefully and answer the questions that follow



a) Identify the structure above

(½ mark)

.....

.....

b) Name the parts labelled A,B and C

(1½ mark)

.....

.....

.....

c) State four practices carried out on the above drawn structure

(2marks)

.....

.....

.....

d) Mention two methods used to maintain high level of oxygen in the above drawn structure

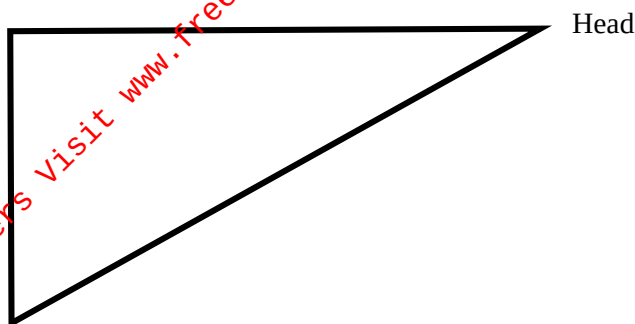
(2marks)

.....

.....

.....

22. The diagram below illustrates a general body shape of a cattle breed. Study it carefully and answer the questions that follow.



i) Identify the type and breed illustrated by the above diagram

(½ mark)

.....

.....

ii) Give two examples of a breed in (i) above

(1mark)

.....

.....

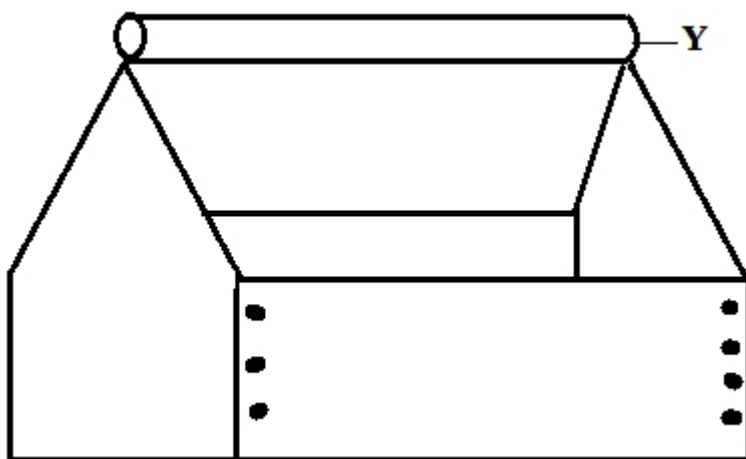
iii) State two physical characteristics of the type of breed in (i)

(1mark)

.....

.....

23. Use the diagram below to answer the questions that follow



a) Identify the structure

(½ mark)

.....

.....

b) Give a reason why part Y should be a rotating part

(1mark)

.....

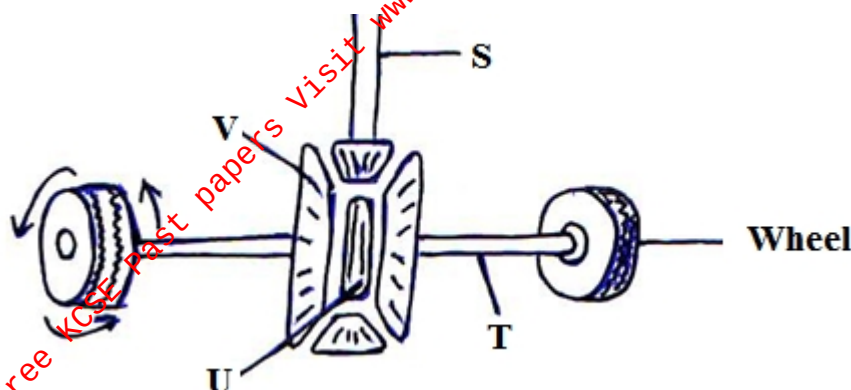
.....

c) State two maintenance practices of the structure

.....

.....

24. Use the diagram below of the differential to answer the questions that follow



a) Name the parts of the differential labelled

(2marks)

S,

T,

U,

V

b) State two functions of the differential

(1mark)

.....

.....

c) Give three maintenance practices carried out to the differential drawn above

(1½ marks)

.....

.....

.....

SECTION C (40 MARKS)

Answer **only two** questions from this section in the spaces provided

25. a) State and explain four factors that should be considered when choosing tools and equipment to use in the farm (8marks)
- b) Describe the procedure of constructing a barbed wire fence (7marks)
- c) Describe the procedure of hand milking in a dairy cow (5marks)
26. a) Explain five precautions observed when handling bees (5marks)
- b) Describe the procedure followed when castrating a three old piglet using a scapel (5marks)
- c) Explain five factors that dictate the amount of feed given to an animal per day (10marks)
27. a) Outline ten factors considered when selecting dairy cattle for breeding (10marks)
- b) Explain the factors considered when choosing the construction materials for farm building (10marks)

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