

NAME.....

INDEX NO:.....

SCHOOL:.....

CANDIDATE'S SIGN:.....

DATE:.....

443/2

AGRICULTURE

PAPER 2

JULY/AUGUST - 2014

TIME: 2 HOURS

MERU COUNTY JOINT EVALUATION EXAM - 2014

Kenya Certificate of Secondary Examination K.C.S.E

443/2

AGRICULTURE

PAPER 2

JULY/AUGUST - 2014

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the spaces provided.
2. This paper consists of *three* sections *A*, *B* and *C*.
3. Answer *ALL* questions in section *A* and *B*.
4. Answer *any two* questions from section *C*.
5. All answers should be written in the spaces provided.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-18	30	
B	19-23	20	
C		20	
		20	
TOTAL SCORE		90	

*This paper consists of 12 printed pages.
Candidates must check to ascertain that all pages are printed as indicated
and that no question(s) is/are missing.*

SECTION A (30 Marks)

Answer all questions in this section in the spaces provided

1. Give four characteristics of heavy poultry breeds.

(2mks)

.....

.....

.....

.....

2. State four advantages of giving colostrum to young calves.

(2mks)

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.....

.....

Name the vitamins whose deficiency leads to the following conditions in animals. (1 ½ mk)

(i) Sterility

.....

.....

(ii) Excessive bleeding from open wounds

.....

.....

(iii) Sore gums

.....

.....

Name the structure that is used to ensure that honey comb and brood combs are found in different chambers in the hive.

(1mk)

.....

.....

Name two zoonotic livestock diseases.

(1mk)

.....

.....

Name two forms in which tape worms are found in livestock.

(1mk)

.....

.....

7. Name the tool / equipment that is complementary in use with: (2mks)

- (i) Trocar.....
- (ii) Rubber ring.....
- (iii) Bull ring.....
- (iv) Mallet.....

8. Name three larval stages of liver fluke. (1 ½ mks)

.....

.....

.....

9. Distinguish between the following practices as used in livestock production:

(a) Crutching and ringing in sheep management. (1mk)

.....

.....

(b) Cropping and harvesting in fish farming. (1mk)

.....

.....

10. State four disadvantages of artificial insemination. (2mks)

.....

.....

.....

11. Give four signs of infestation by external parasites in animals. (2mks)

.....

.....

.....

12. Name four systems of a tractor. (2mks)

.....

.....

.....

13. If Sow was successfully served on 27th September 2004. State the date she is likely to have farrowed. (1mk)

.....

.....

14. State two pest and two diseases that attack bees.

(i) Pests

(1mk)

(ii) Diseases

(1mk)

15. Give two roles of litter in a poultry house.

(1mk)

16. Name four routine livestock practices that used to control parasites and diseases.

(2mks)

17. State four factors that influence the amount of feed that an animal consumers.

(2mks)

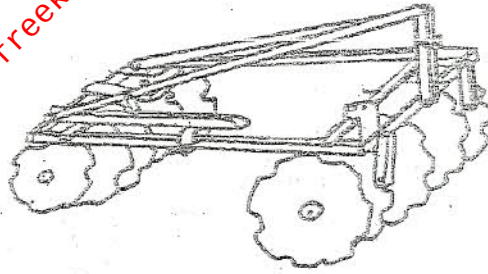
18. State four structural requirement of a calf pen.

(2mks)

SECTION B (20 MARKS)

Answer ALL the questions in this section in the spaces provided.

19. Below is a diagram of a farm equipment.



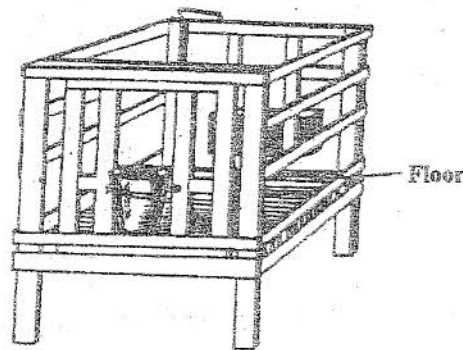
- (i) Identify the equipment (½ mk)

- (ii) State one function of the toothed notches. (½ mk)

- (iii) State one way of increasing the depth of penetration of the equipment. (1mk)

- (iv) State four maintenance practices carried out on the equipment shown above. (2mks)

20. The diagram below represents a calf pen. Study the diagram and answer the questions that follow.



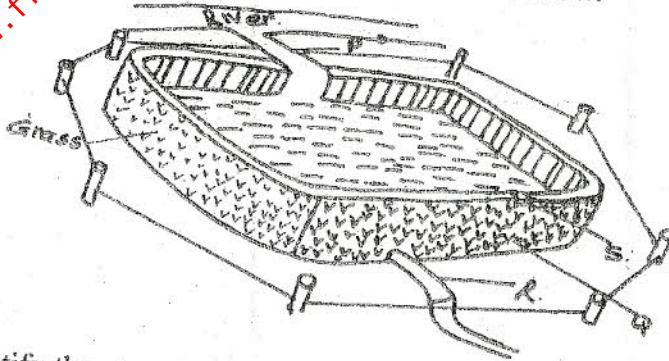
- (a) (i) Identify the type of floor. (½ mk)

- (ii) How high should the floor be raised above the ground level. (½ mk)

(b) State three factors that should be considered when siting the calf pen.

(3mks)

21. Study the diagram below and answer the questions which follow.



(a) (i) Identify the structure above.

($\frac{1}{2}$ mk)

(ii) Identify the parts labeled P, Q, R and S.

(2mks)

P.....

Q.....

R.....

S.....

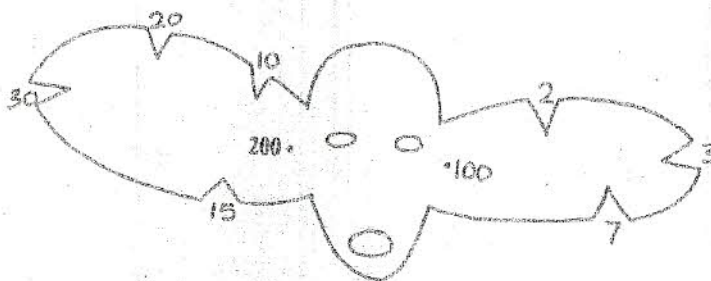
(b) What is the importance of grass on the structure?

($\frac{1}{2}$ mk)

(c) State two factors a farmer needs to consider before starting the above identified Agricultural production.

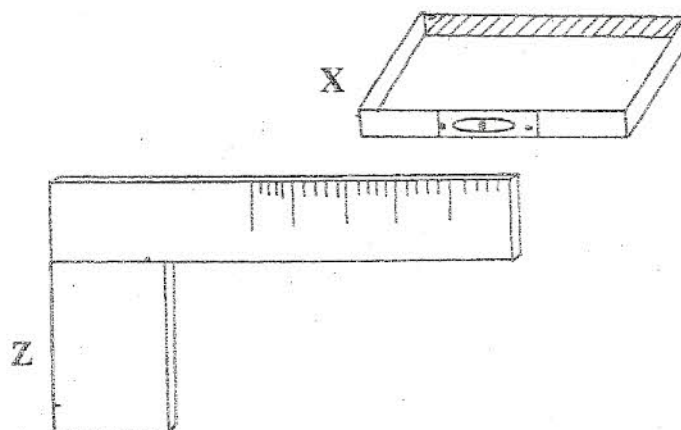
(2mks)

22. The diagram below illustrates a method of identification in livestock production. Study the diagram and answer the questions that follow.



- (i) Name the type of identification illustrated above. (1mk)
-
-
- (ii) Give the identification number of the animal illustrated in the diagram above. (1mk)
-
-
- (iii) Using diagrams illustrate how you can identify animals Nos 163 and 257. (2mks)

23. Study the tools below and answer the questions that follow.



- (a) Identify the tools
- X..... (½ mk)
- Z..... (½ mk)
- (b) What are the functions of tools X and Z. (2mks)
- X
-
-
- Z
-
-

- (b) State three factors that

SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided.

24. (a) Describe foot and mouth disease under the following sub-headings:-
- (i) Causal organisms (1mk)
 - (ii) Livestock species attacked (2mks)
 - (iii) Symptoms of attack (4mks)
 - (iv) Control measures. (3mks)
- (b) Describe poultry management under the following sub-headings.
- (i) Causes for cannibalism (5mks)
 - (ii) Control of stress (5mks)
25. (a) Explain the uses of various equipments used in honey harvesting. (4mks)
- (b) Describe the procedure of processing honey using the heat method (6mks)
- (c) Describe the general characteristics of beef cattle breeds. (10mks)
26. (a) Describe ten general maintenance practices carried out on a tractor. (10mks)
- (b) Describe ten factors a farmer should consider when selecting materials for construction of a dairy cattle shed. (10mks)

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