

Name.....Index No.....

Candidate's sign..... Date

AGRICULTURE PAPER 2

443/2

Time: 2 Hours

SAMIA SUB - COUNTY EXAMINATION - FORM FOUR 2021

Kenya Certificate of Secondary Education (KCSE)

INSTRUCTIONS TO CANDIDATES

- [i] Write your name and index number in the spaces provided at the top of this page .
- [ii] Sign and write the date of the examination in the spaces provided above.
- [iii] This paper consists of three sections A, B, and C.
- [iv] Answer **all** the questions in sections **A** and **B** .Answer **two** questions in section **C**
- [v] Answers should be written in the spaces provided on the question paper.

FOR EXAMINERS USE ONLY.

SECTION	QUESTIONS	MAX.SCORE	CANDIDATES SCORE
A	1-18	30	
B	19-21	20	
C	22-24	40	
TOTAL SCORE		90	

Section A (30marks)

1. Give **two** reasons for docking in sheep production. (1mk)

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2. Give **four** ideal qualities of a good calf pen (2mks)

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3. Outline **four** characteristics of Romney marsh sheep breed (2mks)

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4. (a) State **two** disadvantages of using metal frames in construction of farm buildings(1mk)

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(b) Give **two** reasons for seasoning timber (1mk)

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5. Outline **four** reasons for swarming of bees (2mks)

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6. List **two** methods that can be used to preserve fish (1mk)

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7. (a) What is a notifiable disease?(1mk)

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(b) Name **four** examples of notifiable diseases in livestock (2mks)

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8. Name **two** major physical differences between Bactrian and Dromedary breeds of camel. (1mk)

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9. State **two** characteristics of heavy poultry breeds (1mk)

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10. List **two** maintenance practices of a wood chisel (1mk)

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11. State **four** ways of controlling tsetse flies (2mks)

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12. State **four** characteristics of livestock roughage feedstuff (2mks)

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13. List **two** equipment used in handling cattle during agricultural exhibition (1mk)

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14. State the gestation period of the livestock animals given below

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

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(b) goat
(½mk)

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15. State **four** disadvantages of natural mating (2mks)

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16. State **one** egg content added to it at the magnum during egg formation process(1mk)

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17. State **four** methods used to control cannibalism in a deep litter system (2mks)

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18. (a) Give **three** uses of Biogas in the farm(1 ½ mks)

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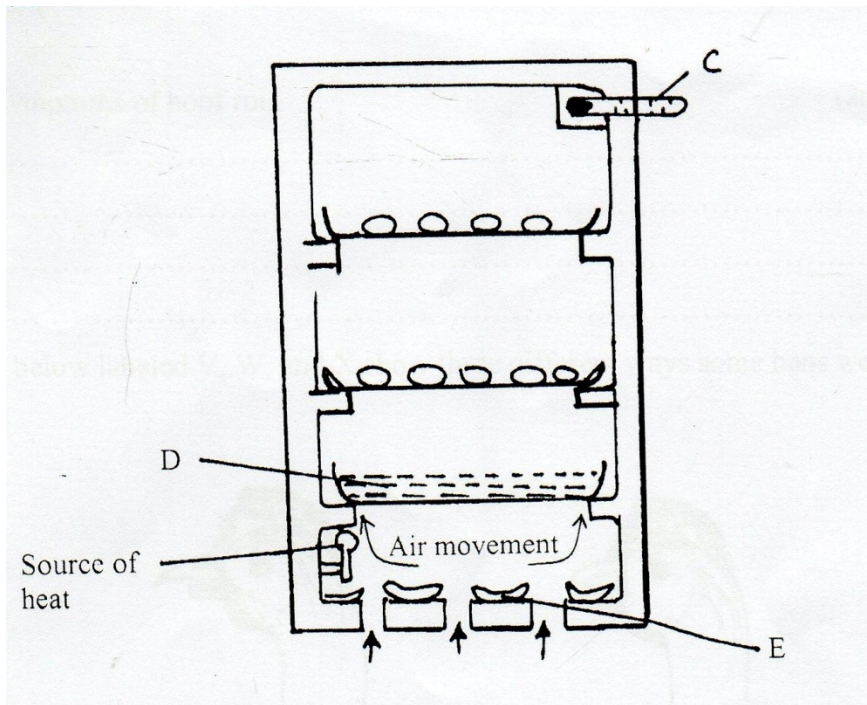
(b) State **three** reasons why the use of wind power on the farm is limited(1 ½mks)

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Section B: (20marks)

Answer ALL questions in this section.

19. (a) The illustration below represents equipment used in poultry production. Study it carefully and answer the questions that follow:



i) Identify the equipment illustrated above. (1mk)

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ii) Name the parts labeled C,D and E on the diagram of the equipment illustrated on the equipment in a) above (1 ½mks)

C

D

E

iii) What are the functions of the parts labeled C,D and E (3mks)

C

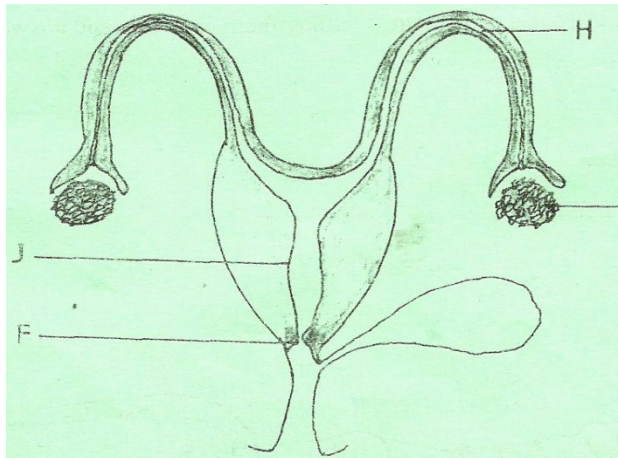
D.....

E.....

(iv) Why is it important to turn the eggs around 180 oc every 6- 8 hours? (1mk)

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(b).The diagram bellows shows the reproductive system of a cow. Study it and answer the questions that follow



(i) Name the parts labeled J , F and H. (1.5mks)

J

F

H

(ii) State one function of each of the parts labeled J and H

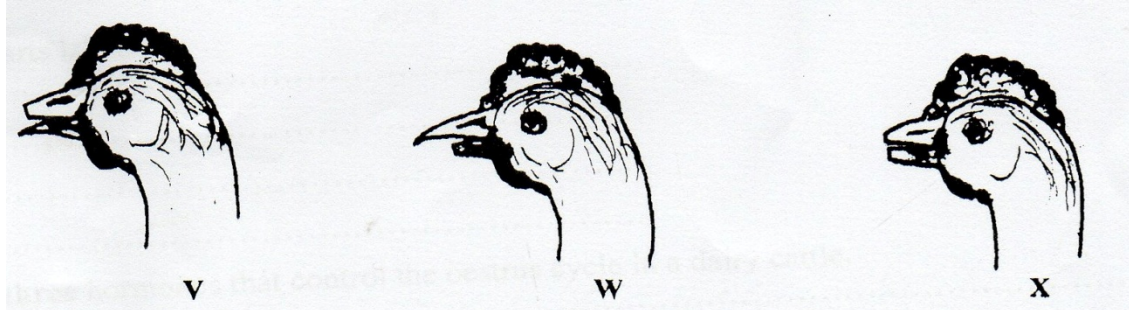
J (1mk)

H (1mk)

(iii) Name three reproductive hormones in dairy cattle
(3mks)

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20 (a) The illustrations below labeled V,W, and X show three different ways some hens were debeaked.



i) Which hen was correctly debeaked ?

(1mk)

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ii) state two reasons for your choice in (i) above (1mk)

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(b) Name any two tools which would be used for debeaking.
(2mks)

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21. Boran Dam X FRIESIAN SIRE – fl heifer x charolais

(a) What type of breeding system is shown above? (1mk)

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(b) Why would you recommend such a breeding system? (1mk)

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(c) What characteristic in the heifer are you improving by using such a breeding system? (1mk)

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SECTION C: (Answer any two questions)

22. (a) outline ten differences between a tractor drawn mould plough and an ox mouldboard(10mks)

(b) describe management of growers to point of lay (10mks)

23. (a) (i) Give three factors considered in siting a farm structure (3mks)

(ii) Describe the functions of each of the following parts of a plunge dip (7mks)

- (a) Foot bath
- (b) Entrance race
- (c) Roof
- (d) Drainage race
- (e) Jump
- (f) Dip tank
- (g) Exit step

(b) Describe the procedure of constructing a barbed wire fence (10mks)

24. (a) (i) Give three factors affecting the amount of food given to an animal (3mks)

(ii) State and explain seven essential of clean milk production (7mks)

(b) Describe digestion of grass in the rumen of a cow (10mks)

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