

EVALUATION EXAM

Kenya Certificate of Secondary Education



443/2- AGRICULTURE – Paper 2

FORM 3 MARCH. 2025- 2 hours

Name.....ADM.No.....Class.....Date.....
Target.....Stream.....

Instructions to candidates

- (a) write your name and Adm. number in the spaces provided above
- (b) sign and write the date of examination in the spaces provided above
- (c) this paper consists of three sections; A, B and C
- (d) Answer all the questions in section A and B.
- (e) Answer any two questions in section C.
- (f) All answers must be written in the spaces provided.
- (g) This paper consists of 14 printed pages.
- (h) Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.
- (i) Candidates should answer all the questions in English

For Examiners Use Only

Section	Question	Maximum Score	Candidates Score
A	1 – 15	30	
B	16-19	20	
C	20-22	20	
		20	
TOTAL SCORE		90	

SECTION A(30Marks)

Answer questions all the in this section.

1.Distinguish between **selection** and **breeding** as used in livestock production. (2marks)

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2.State **two** functions of crop in the digestive system of poultry. (1mark)

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3.Give **two** reasons for flushing in sheep production. (1mark)

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4.State **three** characteristics of a good livestock vaccine. (1 ½ marks)

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5.(i)Give **two** functions of drones in a beehive. (1mark)

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(ii)state **four** factors determining the quality of honey. (2marks)

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6.State **four** reasons why a lamb should be fed on colostrum. (2marks)

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7.Name **two** breeds of livestock under the following categories

(a)mutton sheep. (1mark)

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(b)dual purpose cattle breeds. (1mark)

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(c)beef breeds from Scotland. (1mark)

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8.State **four** physical characteristics of beef cattle breeds.

(2marks)

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9.Below is a list of various livestock diseases

- . Newcastle.
- . Red water.
- . Brucellosis
- . Rinderpest
- . Anaplasmosis
- . Grass staggers.
- . Anthrax
- . Bloat

Identify two diseases that are:

(a)Viral.

(1mark)

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(b) spread by ticks.

(1mark)

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(c) nutritional.

(1mark)

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(d)zoonotic.

(1mark)

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10.State four harmful effects keds to sheep.

(2marks)

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11.List four material used to construct a Kenya Top Bar Hive.

(2marks)

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12.State the functions of the following farm tools and equipment

(a)wire strainer.

(½ mark)

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(b)pipe wrench.

(½ mark)

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(c) soil auger

(½ mark)

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13.State **three** unique signs of heat in rabbits.

(1½marks)

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14.Give **four** characteristics of a good livestock ration.

(2marks)

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15.State **three** physical signs of sickness seen in goats.

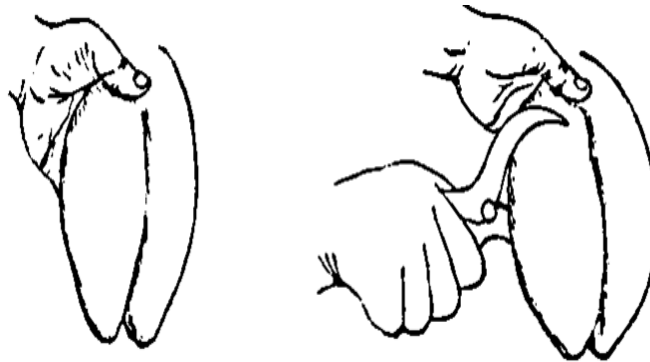
(1½ marks)

SECTION B (20 Marks).

Answer all questions in this section

16.(a) A pig farmer wants to prepare 250 kilograms of sow and weaners meal containing 24% Digestible Crude Protein (DCP). Calculate the amount of wheat (15%DCP) and fish meal (40% DCP) the farmer requires to make the meal. Use a Pearson's square method and show your working. (4marks)

17.The diagram below shows a livestock rearing practice. Study it and answer the questions that follow.



(a) I identify the method. (1mark)

(b) Briefly describe the procedure above. (2marks)

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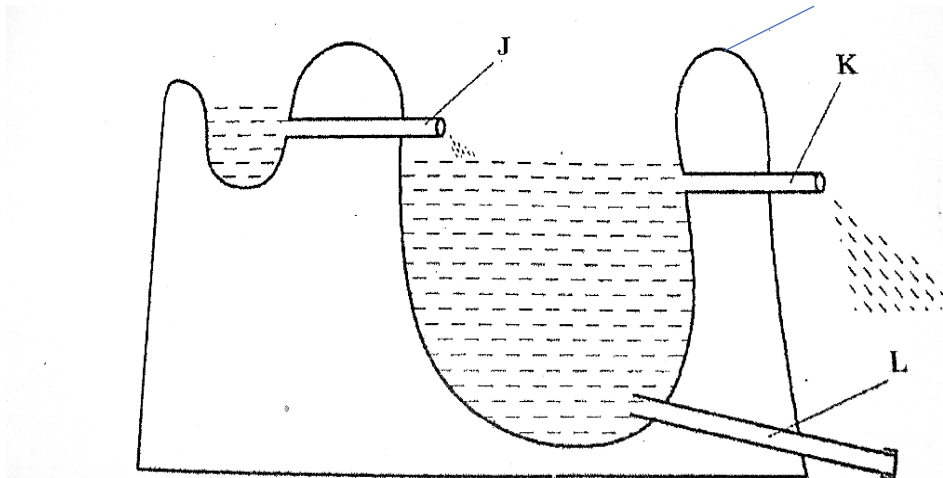
©state **two** effects of the above practice on the animal product.

(2marks)

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18.The diagram below shows a fish pond. Study it and answer the questions that follow.



(i)Name parts labelled:

(1mark)

L.....

K.....

(ii)Give **two** reasons for fitting screen on part labelled J.

(1mark)

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(iii)Give the management practice carried on part F.

(1mark)

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(iv)State **two** fresh warm water species of fish reared in Kenya.

(1mark)

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(v) If the above fish pond measures 50m by 30 m. calculate the stocking rate. (2marks)

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19. The following is an illustration of livestock suffering from deficiency diseases.



(a) State the nutritional disorders seen in the diagrams:

H..... (1mark)

G..... (1mark)

(b) Identify the deficiency nutrient responsible for the condition above in:

H..... (1mark)

(c) List **two** other symptoms shown by animal labelled G. (2marks)

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SECTION C (40 Marks).

Answer only two questions.

- 20.(a) Explain **five** factors considered when culling livestock. (5marks)
- (b) Outline **seven** physical characteristics of a good layer. (7marks)
- (c) Describe the procedure of spraying livestock using acaricide (8marks)
- 21.(a) Describe the life cycle of a named roundworm (6marks)
- (b) Outline steps followed in extracting wax from combs. (7marks)
- (c) Outline **seven** disadvantages related to natural method of mating. (7marks)
- 22.(a) Give **five** roles of protein in a livestock body. (5marks)
- (b) Give **five** control measures of liver flukes. (5marks)
- (c) Describe rearing practices carried out on a male lamb from birth to mating time (10marks)

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This image shows a full page of a handwriting practice worksheet. It consists of approximately 20 horizontal rows. Each row is defined by two parallel dashed lines, creating a series of uniform gaps for letter height. The lines are evenly spaced across the entire page, providing a guide for consistent letter formation. There is no text or other markings on the page.

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