

**THE KENYA NATIONAL EXAMINATIONS COUNCIL**  
**Kenya Certificate of Secondary Education**

**443/2****AGRICULTURE (Theory)****Paper 2****Nov. 2023 - 2 hours**

Serial No.

28343387

**Name:** .....**Index Number:** .....**Candidate's signature:** .....**Date:** .....**Instructions to Candidates**

- (a) Write your name and index 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 sections **A** and **B**.
- (e) Answer any **two** questions in section **C**.
- (f) All answers should be written in the spaces provided.
- (g) **This paper consists of 16 printed pages.**
- (h) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- (i) **Candidates should answer the questions in English.**

**For Examiner's Use Only**

Section	Question	Maximum Score	Candidate's Score
<b>A</b>	<b>1 - 15</b>	<b>30</b>	
<b>B</b>	<b>16 - 19</b>	<b>20</b>	
<b>C</b>		<b>20</b>	
		<b>20</b>	
<b>Total Score</b>		<b>90</b>	

© 2023 The Kenya National Examinations Council

317063

443/2

**Turn over**

## SECTION A (30 marks)

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



- 1 Name **four** types of feeds given to pigs from birth to maturity. (2 marks)

.....

.....

.....

.....

- 2 State **two** characteristics of each of the following goat breeds:

- (a) saanen; (1 mark)

.....

.....

- (b) toggenberg. (1 mark)

.....

.....

- 3 State **four** behavioural characteristics that may **indicate** sickness in livestock. (2 marks)

.....

.....

.....

.....

- 4 Give **four** reasons why livestock breeding is carried out. (2 marks)

.....

.....

.....

.....



5 State **four** importance of flushing in ewes.

(2 marks)

.....

.....

.....

.....

6 State **four** predisposing factors of livestock diseases.

(2 marks)

.....

.....

.....

.....

7 State **four** advantages of castrating male piglets.

(2 marks)

.....

.....

.....

.....

8 Give **four control** measures to prevent egg-eating in a deep litter poultry rearing system.

(2 marks)

.....

.....

.....

.....

9 Give **four** reasons for carrying out maintenance practices on a chaff cutter.

(2 marks)

.....

.....

.....

.....



- 10 State **four** signs of livestock sickness observed on dung. (2 marks)



.....

.....

.....

.....

- 11 State **four** uses of electric power in a dairy unit. (2 marks)

.....

.....

.....

.....

- 12 Name **two** sheep breeds that are reared for:

(a) mutton; (1 mark)

.....

.....

(b) both mutton and wool. (1 mark)

.....

.....

- 13 State **four** advantages of animal power over tractor power. (2 marks)

.....

.....

.....

.....



14 Name the farm tool used for each of the following:

(a) cutting curves in wood; (½ mark)

.....

(b) smoothing curved wood surface; (½ mark)

.....

(c) bloodless castration; (½ mark)

.....

(d) cutting and splicing wires. (½ mark)

.....

15 State **four** factors considered when selecting construction materials. (2 marks)

.....

.....

.....

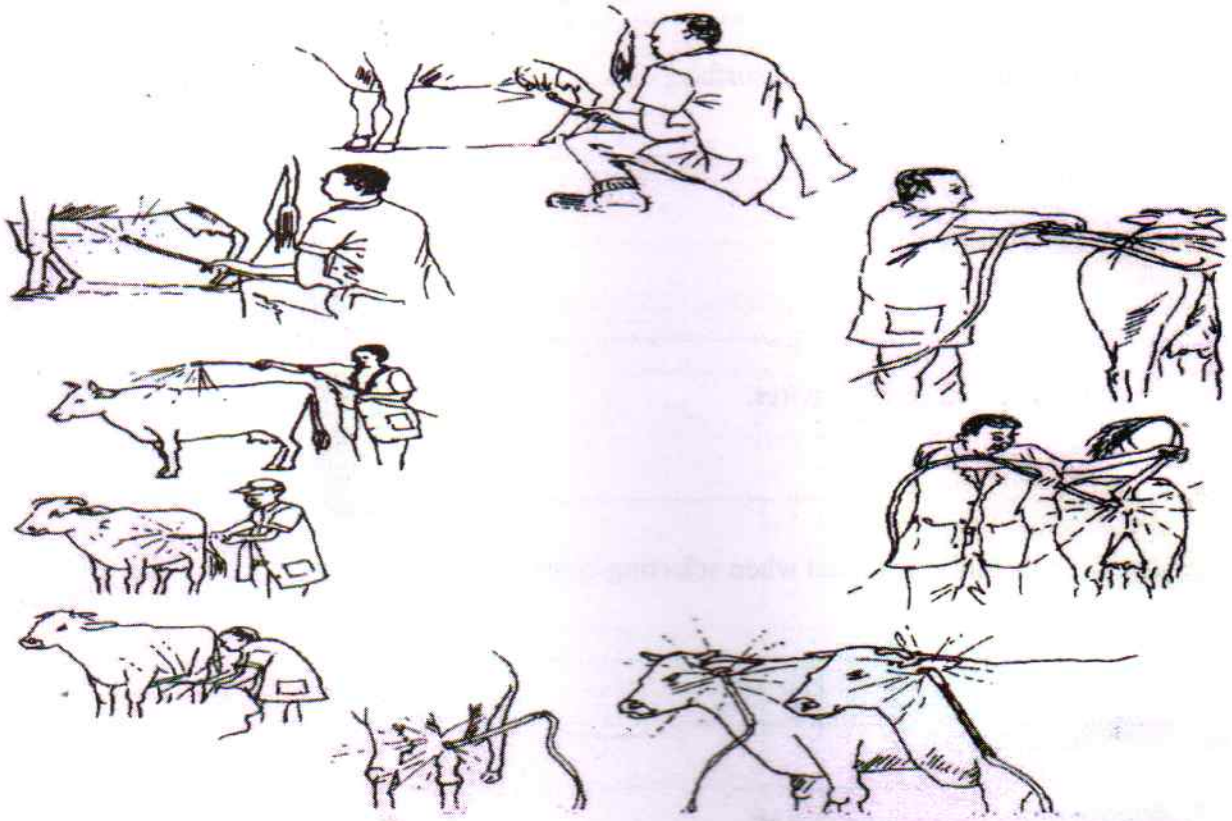
.....



**SECTION B (20 marks)**

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

16 The following diagram shows a livestock rearing practice.



(a) Give a reason why the practice is carried out. (1 mark)

(b) Using letters X and Y, mark on the diagram, the animal part that is targeted:

(i) first (X); (1 mark)

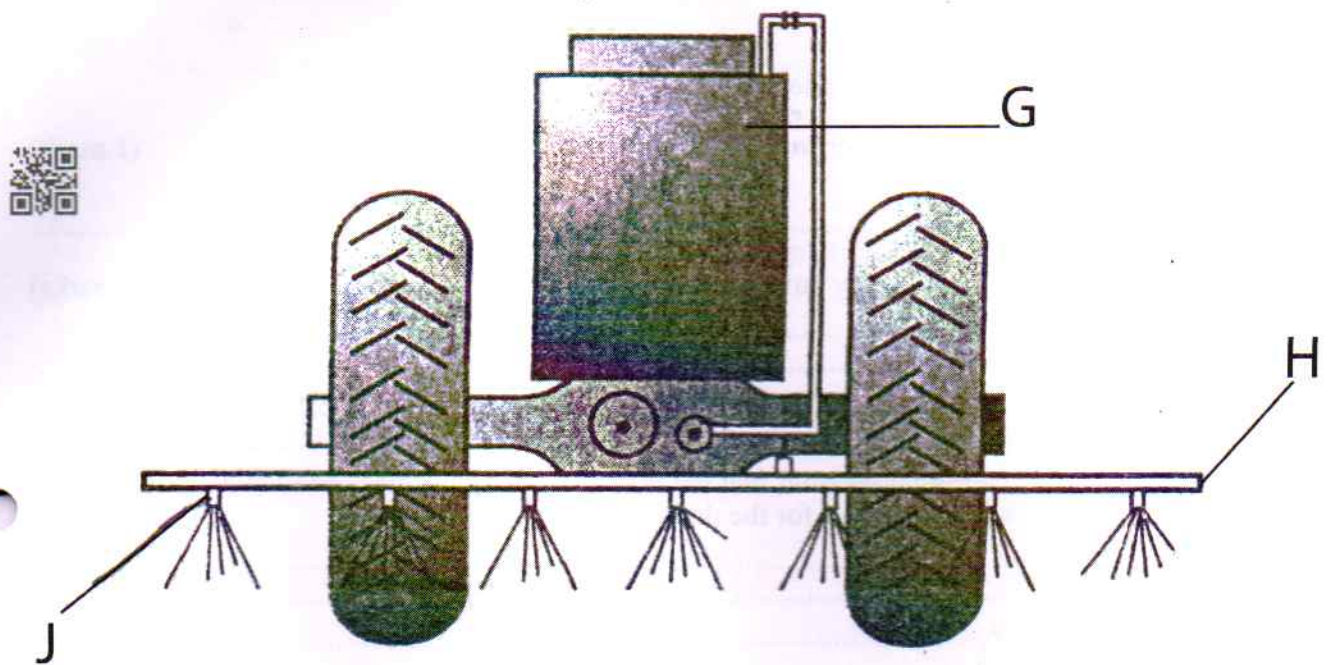
(ii) last (Y). (1 mark)

(c) Name the farm structure in which the practice should be carried out. (1 mark)

(d) Name the farm equipment the farmer used to carry out the practice. (1 mark)



- 17 The following picture shows a tractor drawn implement.



- (a) Identify the implement. (1 mark)

.....

- (b) Name the part labelled:

**G** (1 mark)

.....

**H** (1 mark)

.....

**J** (1 mark)

.....

- (c) State **one** maintenance practice for the part labelled **J**. (1 mark)

.....

.....

18 A farmer observed the following symptoms on a cow:

- distended left side of the abdomen;
- difficulty in breathing;
- profuse salivation;
- cow lies down and is unable to rise up.

(a) Identify the disorder the cow was suffering from.

(1 mark)

.....

(b) State **two** factors that may have led to the disorder.

(2 marks)

.....

.....

(c) Give **two** control measures for the disorder.

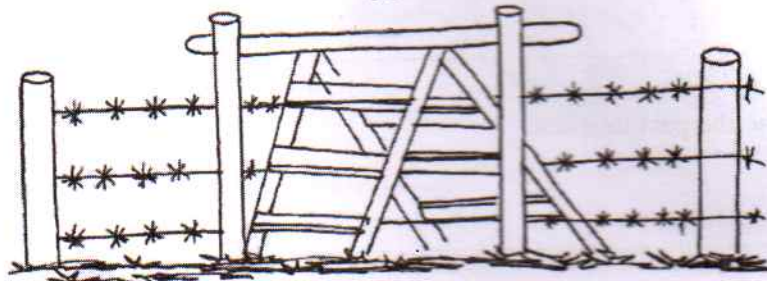
(2 marks)

.....

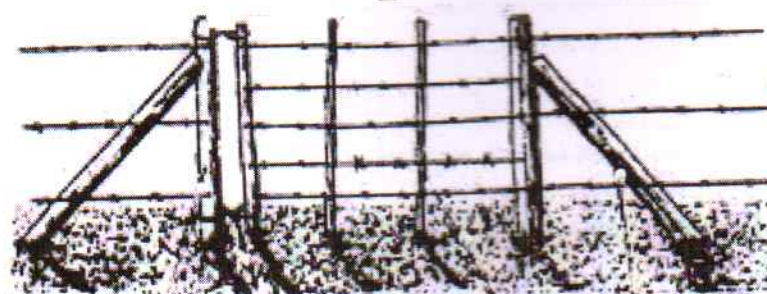
.....

19 The following pictures show parts of a farm structure.

K



L



(a) Identify the farm structure.

(1 mark)

.....



- (b) Name the part labelled: **K** (1 mark)
- .....

**L** (1 mark)

.....

- (c) State **one** functional difference between the parts labelled **K** and **L**. (1 mark)
- .....
- .....

- (d) Give **one** maintenance practice for the part labelled **L**. (1 mark)
- .....
- .....

### SECTION C (40 marks)

Answer any **two** questions from this section in the spaces provided after question 22.

- 20** (a) Describe roundworm (*Ascaris spp*) infestation in livestock under the following sub-headings:
- (i) livestock infested; (2 marks)
  - (ii) symptoms of infestation; (4 marks)
  - (iii) control measures. (4 marks)
- (b) Explain **five** conditions necessary for artificial incubation of eggs in poultry farming. (10 marks)
- 21** (a) Describe the rearing of a dairy calf under the following sub-headings:
- (i) feeding; (6 marks)
  - (ii) housing. (4 marks)
- (b) Describe the establishment of a barbed wire fence. (6 marks)
- (c) State **four** disadvantages of live fences. (4 marks)

- 

#	Part	Adaptation	Function	Score
(i)	Beak			(2 marks)
(ii)	Crop			(2 marks)
(iii)	Gizzard			(2 marks)
(iv)	Caecum			(2 marks)

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.