

Name: Index No:
Candidate's signature:
Date:

443/2
AGRICULTURE
Paper 2
TERM 3 2019
Time: 2Hours

Kenya Certificate of Secondary Education

INSTRUCTIONS TO CANDIDATES:

- Write your **name** and **index number** in the space provided.
- **Sign** and **write the date** of examination in the space provided
- This paper consists of three section **A, B** and **C**.
- Answer all questions in section **A** and **B**.
- Answer any two questions in section **C**
- All the questions should be answered in the spaces provided.

FOR EXAMINERS USE ONLY

SECTION	QUESTINS	MAX SCORE	CANDIDATES SCORE
A	1-21	30	
B	22-24	20	
C	25	20	
	26	20	
	27	20	
TOTAL		90	

This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (30MARKS)

Answer all the questions in this section in the space provided.

1. Give **four** signs of ill health in livestock. (2mks)
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2. List **four** materials that can be used in the construction of Kenya top bar hive. (2mks)
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3. State **four** management practices carries out on a cows during parturition. (2mks)
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4. Name four methods of controlling Newcastle disease in chicken (2mks)
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5. State the role of the following practices when rearing piglets
(i) Iron injection. (½mks)
.....
(ii) Tooth clipping (½mks)
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6. State **two** functions of fats and oils in animals body. (1mk)
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7. State **two** functions of a queen bee in a colony (1mk)
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8. Name **four** species of fresh water fish reared in Kenya. (2mks)

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9. State **two** forms in which tapeworms are found in livestock (1mk)

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10. Give the distinguishing colour for each of the following breeds of livestock

(i) Chinchilla rabbit (½mks)

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(ii) Toggen burg goat (½mks)

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11. State **two** functions of ventilation in an animal house (2mk)

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12. Give **two** reasons for using litter in a poultry house. (2mk)

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13. State **one** role of each of the following ingredients as used in preparation of artificial colostrums. (2mks)

(a) Castor oil

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(b) Cod liver oil

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14. State four reasons for breeding animals. (2mks)

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15. State the functions of each of the following

(a) Shovel (½mks)

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(b) Strip cup (½mks)

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16. Why is it necessary to have guard rails in a farrowing pen? (1mk)
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-
17. Distinguish between the following practices as used in livestock production.
- (a) Cropping and harvesting in fish farming (1mk)
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- (b) Crutching and ringing in sheep management (1mk)
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18. State three instances when a bee keeper may handle bees. (1½mks)
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19. State three functions of rumen in ruminant animals (1½mks)
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20. Give two signs that indicate that a cow has died of anthrax. (1mk)
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21. Why is it raddling essential in sheep management. (1mk)
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SECTION B (20 MARKS)

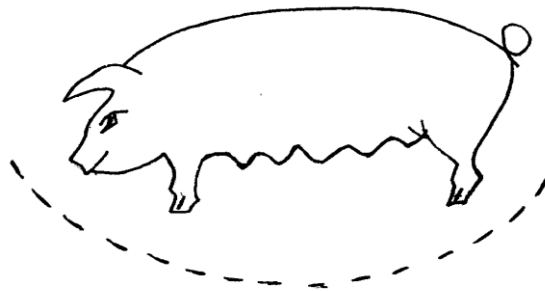
Answer all the questions in this section in the spaces provided.

- 22.
- (a) If the maize meal contains 60% digestable crude protein (DCP) and Fish contains (64% DCP, calculate the amount of each feed stuff in Kilogrammes required to prepare 200kg of chickmash containing 18% DCP. (4mks)

(b) Name two other feed ingredients which should be added to the chick mash to make it a balanced diet. (2mks)

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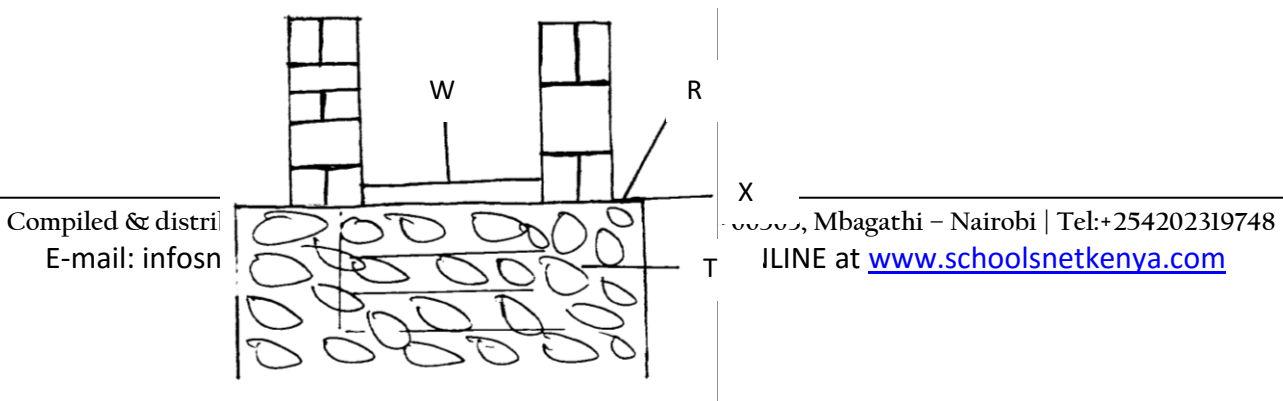
23. The figure below is a pig with some body paints. Study it and answer the questions that follow.



(i) A farmer wants to select a breeding stock. State the three physical qualities the farmer should assess in order to select a pig. (3mks)

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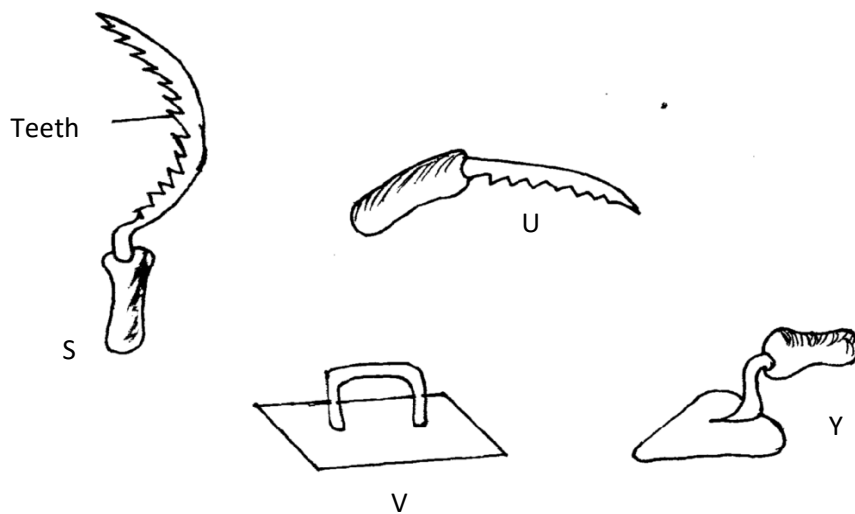
b) Study the illustration below of a hard flow foundation in a farm structure.



i) Name the parts labeled Rand T (2mks)

ii) State three advantages of concrete floor. (3mks)

24. The diagram below represents some farm tools



(a) State the use of each tool on the farm. (4mks)

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(b) Explain two maintenance practices that should be carried out on the teeth of tools in the diagram. (2mks)

SECTION C

Answer any two questions in this section in the spaces provided after question 26.

25.

(a) Explain the factors considered when culling livestock. (5mks)

(b) Explain five factors considered when siting a cattle dip. (5mks)

(c) Give four conditions necessary for artificial incubation. (4mks)

(d) Outline the factors a farmer should consider to ensure fast and efficient cultivation by oxen.

(6mks)

26.

(a) Describe East Coast Fever (ECF) under the following sub headings.

(i) Animal attacked (1mk)

(ii) Causal organism (1mk)

(iii) Signs of infection (5mks)

(iv) Control measures (3mks)

(b) Explain seven factors that affect milk composition in a dairy farming. (7mks)

(c) State the advantages of a four stroke engine over a two stroke engine oil. (3mks)

27.

(a) Describe the feeding practices in artificial rearing of a dairy calf. (10mks)

(b) Describe the life cycle of a three host tick. (10mks)

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