

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**

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

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)

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- (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)

**SECTION B (20 MARKS)**

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

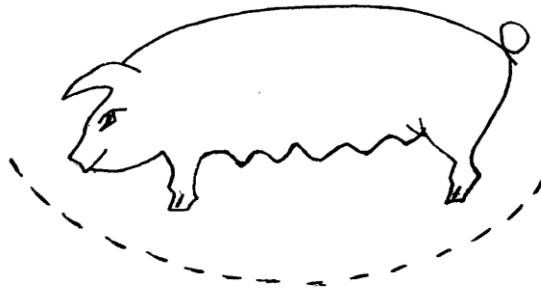
22.

- (a) If the maize meal contains 60% digestible 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 chickmash 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)

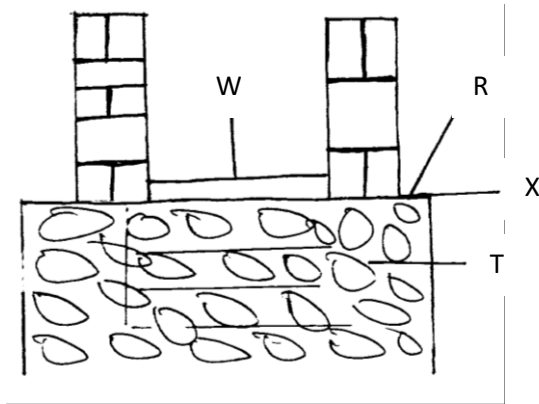
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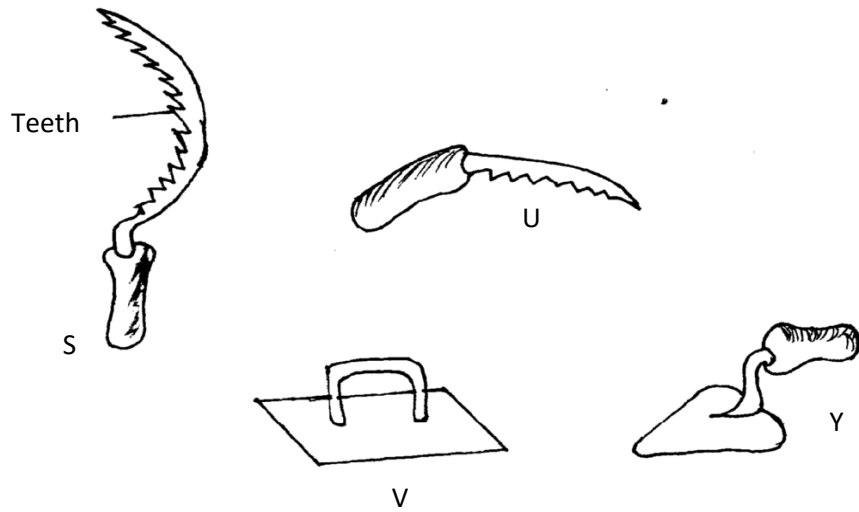
b) Study the illustration below of a hard flow foundation in a farm structure.



i) Name the parts labeled R and 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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V

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Y

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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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