

NAME..... INDEX NO.....

SCHOOL..... CANDIDATE'S SIGNATURE.....

DATE.....

443/2  
AGRICULTURE  
PAPER 2  
JULY/AUGUST 2014  
TIME: 2 HOURS

**TRANS-NZOIA COUNTY JOINT EXAMINATION-2014**  
*Kenya Certificate of Secondary Education*

AGRICULTURE  
PAPER 2  
TIME: 2 HOURS

**INSTRUCTIONS TO CANDIDATES:**

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of **THREE** Sections **A**, **B** and **C**.
- Answer all questions in Section **A** and **B**.
- Answer two questions in Section **C** in the spaces provided.

**FOR EXAMINER'S USE ONLY**

Section	Question	Maximum Score	Candidate's Score
<b>A</b>	<b>1 - 19</b>	<b>30</b>	
<b>B</b>	<b>20 - 23</b>	<b>20</b>	
<b>C</b>	<b>24 – 26</b>	<b>20</b>	
		<b>20</b>	
<b>Total Score</b>		<b>90</b>	

**SECTION A: (30 MARKS)**

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

1. State **three** ways used to improve production of indigenous cattle. (1½ marks)

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2. List **four** factors considered when formulating a livestock ration. (2 marks)

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3. List **two** methods of identifying pigs. (1 mark)

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4. State **two** reasons why walls of a dairy shed should be white washed instead of painting. (1 mark)

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5. Give **two** reasons for applying oil and grease on a rotary mower. (1 mark)

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6. Differentiate between cropping and harvesting in fish farming. (1 mark)

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7. (a) Name **two** common diseases that attack bees in a colony. (1 mark)

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(b) Name the equipment used to make the bees less aggressive during harvesting of honey. (½ mark)

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8. (a) Give **two** functions of Albumen in an egg. (1 mark)

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(b) What leads to double yolk in egg formation? (1 mark)

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9. Name **two** livestock diseases controlled through Artificial insemination. (1 mark)

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10. (a) List **two** types of feed additives. (1 mark)

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(b) Give **two** reasons why it is important to include additives in commercial feeds. (1 mark)

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11. Name **four** symptoms of Gumboro disease in poultry production. (2 marks)

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12. Name **four** light breeds of poultry. (2 marks)

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13. Give **three** methods of harnessing tractor power. (1½ mark)

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14. Give **four** factors which affect digestibility in livestock. (2 marks)

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15. Give **four** reasons why breeding boar may be culled. (2 marks)

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16. Give **four** factors considered when siting a milking parlour. (2 marks)

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17. State **four** maintenance practices carried out on a wire fence. (2 marks)

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18. List **four** functions of the rumen in the digestion of feed in ruminants. (2 marks)

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19. State the use of each of the following parts in a cattle dip. (2 marks)

(i) Roof \_\_\_\_\_

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(ii) Silt trap \_\_\_\_\_

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(iii) Drainage race \_\_\_\_\_

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(iv) Foot bath \_\_\_\_\_

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**SECTION B: (20 MARKS)**

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

20. The diagram **below** represents conditions of the tyre.



E



F



G

(a) Which diagram represent the correct pressure in a tractor tyre? (1 mark)

\_\_\_\_\_

(b) Identify the mistakes with the other two tyres. (2 marks)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(c) Give the correct measures taken for each tyre mentioned in (b) above. (2 marks)

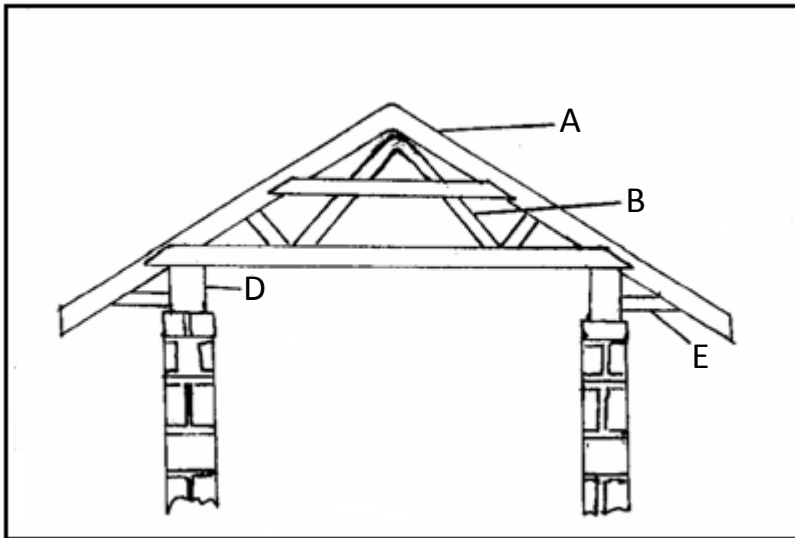
\_\_\_\_\_

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21. Study the diagram below of a farm structure.



(a) Identify the structure above. (1 mark)

\_\_\_\_\_

(b) Name the parts labeled. (4 marks)

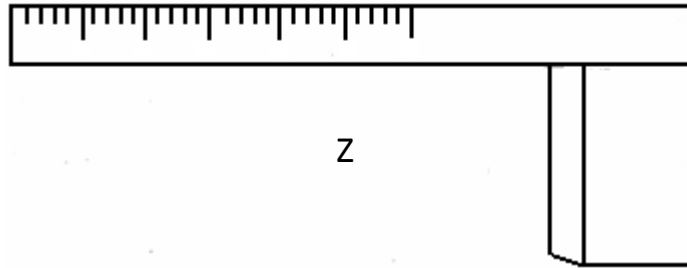
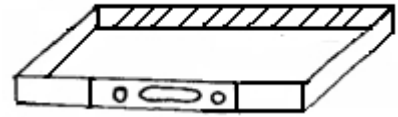
A \_\_\_\_\_

B \_\_\_\_\_

E \_\_\_\_\_

D \_\_\_\_\_

22. Study the tools **below** and answer the questions **below**.



(a) Identify the tools. (3 marks)

W \_\_\_\_\_

X \_\_\_\_\_

Z \_\_\_\_\_

(b) What are the functions of tools? (2 marks)

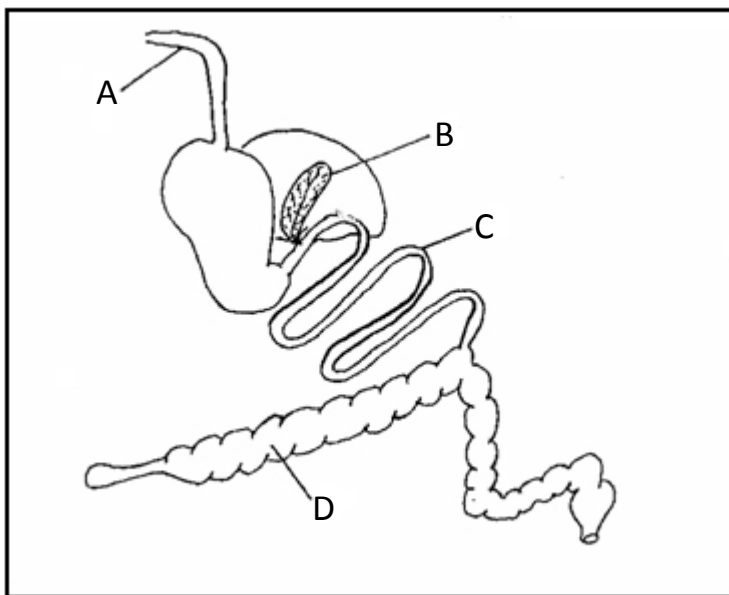
Z \_\_\_\_\_

\_\_\_\_\_

X \_\_\_\_\_

\_\_\_\_\_

23. Study the diagram **below** then answer the questions that follow.



(i) Name **one** farm animal which has the above digestive system. (1 mark)

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(ii) Label the following parts (2 marks)

**A** \_\_\_\_\_

**B** \_\_\_\_\_

(iii) Give the functions of each of the parts named: (2 marks)

**C** \_\_\_\_\_

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**D** \_\_\_\_\_

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**SECTION C: (40 MARKS)**

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

24. (a) State **four** reasons for breeding cattle. (4 marks)

(b) Explain **four** routine management practices carried out during rearing of dairy calves. (8 marks)

(c) State **five** reasons for swarming in bees. (5 marks)

(d) List **three** ways of controlling liver flukes in sheep. (3 marks)

25. (a) Discuss the disease Trypanosomiasis under the following subheadings.

(i) Causal organism. (1 mark)

(ii) Animals attacked. (1 mark)

(iii) Mode of transmission. (1 mark)

(iv) Symptoms. (2 marks)

(v) Control (3 marks)

(b) Explain the measures used in controlling diseases in livestock. (12 marks)

26. (a) Give the differences between petrol engine and diesel engine. (10 marks)

(b) Describe the functions of the lubricating system in a tractor. (5 marks)

(c) Other than the lubricating systems name **five** other systems of a tractor. (5 marks)

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