

Name .....

Index No. ....

School .....

Candidate's Sign: .....

Date: .....

443/2

AGRICULTURE

Paper 2

July / August 2010

2 Hours

## LAIKIPIA DISTRICT JOINT EVALUATION TEST- 2010

*Kenya Certificate of Secondary Education (K.C.S.E)*

443/2

AGRICULTURE

Paper 2

July / August 2010

2 Hours

### INSTRUCTIONS TO CANDIDATES:

- This paper consists of THREE sections A, B and C.
- Answer ALL questions in section A and B and **TWO** questions in section C.
- Answers to ALL questions **MUST** be written in the spaces provided.

### For Examiner's Use Only

Section	Question	Maximum Score	Candidates Score
A	1 – 15	30	
B	16 - 18	20	
C		20	
		20	
<b>TOTAL</b>		<b>90</b>	

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

**SECTION A (30 MARKS)**

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

- 1. a) Differentiate between a parasite and a pathogen (1mk)  
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- b) Name **Two** categories of parasites in livestock (1mk)  
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- 2. State **Three** factors that stimulate milk let-down in dairy cows. (3mks)  
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- 3. Name **Two** conditions which pre-dispose foot-rot in sheep (2mks)  
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- 4. Name **Four** causes of stress in layers (2mks)  
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- 5. Give **Two** factors considered when siting a calf pen (2mks)  
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- 6. State **Four** factors considered when selecting an implement for primary cultivation (2mks)  
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- 7. State **Four** functions of vitamins in livestock (2mks)  
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- 8. Give **Two** factors that may lead to conception failure after service in heifers (2mks)  
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9. Give **Two** uses of litter in a poultry house (2mks)

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10. State **Two** functions of ventilation in a pig house (2mks)

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11. State **Four** reasons for maintaining livestock healthy (2mks)

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12. State **Three** harmful effects of ticks on livestock (1½mks)

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13. Apart from sharpening blades and lubricating, state **Three** other maintenance practices that should be carried out on a rotary mower. (1 ½ mks)

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14. Give **Two** adjustments that should be carried out for proper operations of a disc harrow. (2mks)

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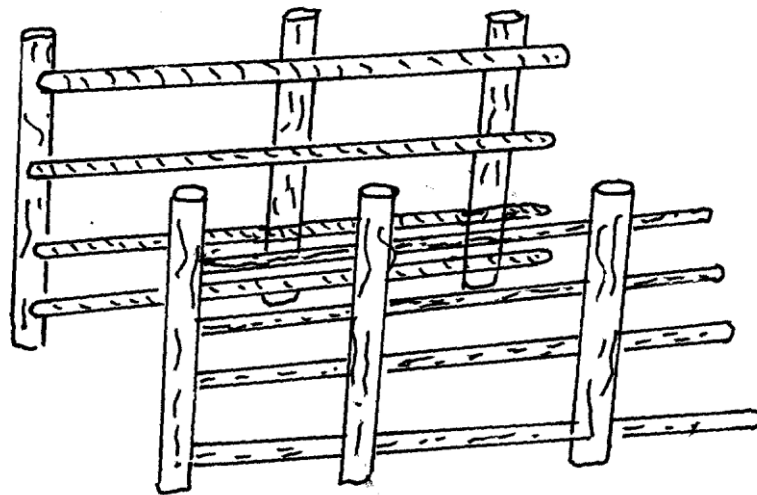
15. Give **Four** uses of harrows on the farm (2mks)

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**SECTION B (20MKS)**

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

16. Below is an illustration of a farm structure.



a) Identify the structure above. (1mk)

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b) State **Six** livestock routine practices which may be carried out in the structure above (3mks)

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c) Give **Two** maintenance practices which should be carried out in the structure above (1mk)

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17. a) Distinguish between Dry matter (D.M) and crude fibre (C.F), with reference to feedsuffs in animal nutrition. (1mk)

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b) Using the information given below, answer the questions that follow.

Feedstuff	Starch equivalent	Protein	Price per kg
Maize meal	80%	10%	25
Wheat Bran	90%	60%	42

i) Formulate a ration of three bags (210kg) containing 15% protein using maize meal and wheat bran as the ingredients. (Use Pearson's square method) (3mks)

ii) Calculate the price per bag of the ration in b (i) above. (2mks)

c) Name **Three** physical injuries that are potential causes of a disease in livestock (3mks)

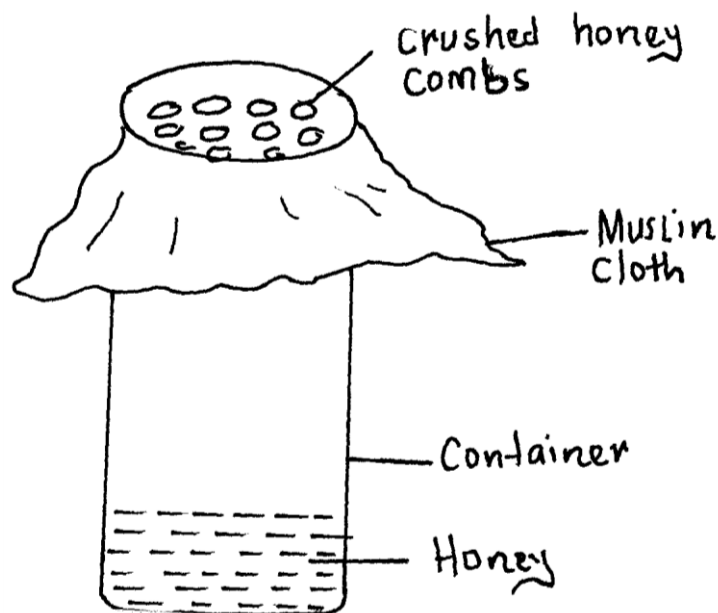
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18. The diagram below represents a method of honey extraction. Study it and answer questions that follow.



- a) Identify the method ..... (1mk)
- b) State **Four** factors that may influence the quality of honey during processing, using the above method. (4mks)
- .....
- .....
- .....
- .....
- c) Name any other method of processing honey (1mk)
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- .....

**SECTION C (40MKS)**

**Answer any TWO questions in this section in the spaces provided.**

19. Discuss fish farming in a fish pond under the following sub-headings;
- a) Stocking (7mks)
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- .....
- .....
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- .....
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- b) Feeding (4mks)
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- .....
- .....
- .....

c) Harvesting (5mks)

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d) Practices observed before preservation. (4mks)

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20. a) Describe the construction of a rabbit hutch under the following sub-headings.

i) Selection of construction materials (4mks)

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ii) Siting the hutch (4mks)

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iii) Structural features of a good rabbitry (6mks)

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b) Outline the uses of farm fences (6mks)

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21. a) Outline **Five** maintenance practices carried out on sprayers. (5mks)

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b) Discuss the management practices on a tractor (10mks)

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c) List **Five** implements that are connected to the power take off (P.T.O) of a tractor (5mks)

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