

NAME _____ INDEX _____

DATE _____ SIGNATURE _____

AGRICULTURE 443/2
FORM FOUR
1ST TERM 2016
2 HRS.

Kenya Certificate of Secondary Education
AGRICULTURE 443/2
FORM FOUR 1ST TERM EXAMINATION 2016

Instructions

- This paper consists of three sections A, B and C
- Answer all the questions in sections A and B
- Answer any two questions in section C

For Examiner's Use Only

Section	Questions	Maximum marks	Candidate score
A	1 - 16	30	
B	17 - 19	20	
C	20 - 22	40	
	Grand total	90	

This paper consists of 10 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (30 Marks)

Answer all the questions in spaces provided

1. Give four importance of livestock to a farmer (2 marks)

2. Differentiate between the following;
a) Bullock and steer (1 mark)

b) Gilt and sow (1 mark)

c) Pullet and cockerel (1 mark)

3.a) What is digestibility ? (½ mark)

b) Give five factors which affect digestibility of feed (2 ½ marks)

4.a) State four functions of calcium in dairy cows (2 marks)

b) Give two ways by which proper feeding contributes to disease control in livestock (1 mark)

5. State one role of the following parts in poultry's digestive system; (½mark)

i) Crop

ii) Proventriculus (½ mark)

iii) Gizzard (½mark)

iv) Duodenum (½mark)

v) Caecum (½mark)

6. State four differences between ruminants and non-ruminants (2 marks)

7. Give four reasons for breeding in livestock (2 marks)

8. State two limitations of upgrading as a system of breeding livestock (1 mark)
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9. State two reasons for flushing sheep (1 mark)
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10. List four characteristics of a good creep feed (2 marks)
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11. State four practices a livestock farmer may employ to minimize parasite attack in sheep (2 marks)
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-
12. Name four methods suitable for identifying goats (2 marks)
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-
13. State four reasons for castrating male calves (2 marks)
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14. Which are four calving complications on cows (2 marks)
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15. Give four practices carried out on fish immediately after harvesting. (2 marks)

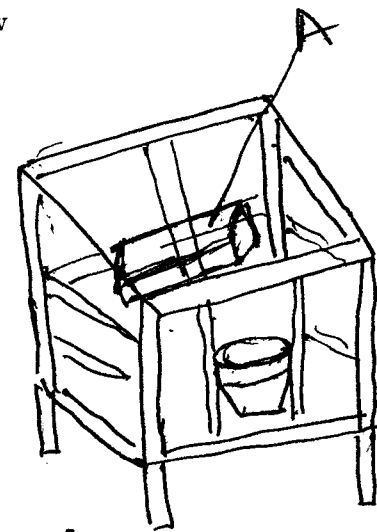
16.a) State four ways of stimulating a cow for milk let down (2 marks)

b) Explain how milk let down can be inhibited in a cow (2marks)

SECTION B (20 marks)

Answer all the questions in this section

17. Study the farm structure below and answer the questions that follow



a) Identify the structure (1 mark)

b)i) Name the parts labeled A (1marks)

ii) What is the use of part labeled A from above diagram (1mark)

c)i) How should the floor of structure above look like. (1mark)

ii) Give reason for your answer in c)i) above (1 marks)

d) Give three structural requirements of the diagram above (3marks)

18. Using the information given below, answer the questions that follow

Feed stuff	Starch equivalent	Protein	Price per kg
A	80%	10%	Kshs 10.00
B	90%	60%	Kshs 60.00

(a) Using Pearson's square method, formulate a ration of 200Kg containing 15% protein using A and B as ingredients. (4marks.)

(b) Calculate the price per Kg of the feed. (3 marks.)

19.a) State two factors to consider when formulating a livestock ration (2marks)

b Describe the procedure of collecting semen from a bull (3 marks)

SECTION C (40 marks)

Answer any two question in this section

20. Describe the preparations one needs to make before and on arrival of chicks (20 marks)

21.a) i) State seven factors to consider when selecting construction materials for a zero grazing unit (7 marks)

ii) Explain the maintenance practices that should be carried out on an ox cart (3 marks)

b) Describe the cycle of a four stroke petrol engine (10 marks)

22.a) Discuss gumboro disease in layers under the following sub headings;

i) Causal organism

(1 mark)

ii) Symptoms of attack;

(6 marks)

iii) Control measures

(3 Marks)
