| NAME   | INDEX  | DATE | •  |
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| SCHOOL | SIGNAT | TURE | •• |

443/2

AGRICULTURE
PAPER TWO
JULY / AUGUST 2010
2 1/2 HOURS

## BELGUT / AINAMOI JOINT EVALUATION EXAMS KENYA CERTIFICATE OF SECONDARY EDUCATION (2010)

## 443/2 AGRICULTURE JULY/ AUGUST

#### INSTRUCTION TO CANDIDATES

- ❖ This paper consists of section A, B, and C
- ❖ Answer all the questions in Sections A & B
- ❖ Answers should be written in the spaces provided
- Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

#### For exam miners use only

| Section | Question | Max. score  | Candidates score |
|---------|----------|-------------|------------------|
| A       | 1- 16    | 30          |                  |
| В       | 17 -20   | 20          |                  |
|         | 21       | 20          |                  |
|         | 22       | 20          |                  |
|         | 23       | 20          |                  |
|         |          | Total Score | 110              |

# SECTION A: 30 mks. Answer ALL the questions in this section 1. State the factors that influence the quality of bricks (2mks)2. Give four functions of vitamins in livestock production (2mks)3. What is the functional difference between a cold chisel and a wood chisel (2mks) 4. Give two signs that would indicate a cow has died of anthrax (1mk) 5. Distinguish between inbreeding and out crossing in livestock production (2mks)

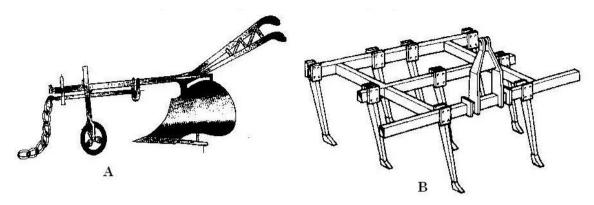
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| 6. | Give two reasons for steaming up in dairy cattle management              | (2 mks) |
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| 7. | Give two functions of drones in a bee colony.                            | (2mks)  |
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|    |  |         |
|    |  |         |
| 8. | Name the breed of goat which is brown with strips running down the       |         |
| •  | nose   | (1mk)   |
|    |  | ,       |
|    |  |         |
| 9. | Give four reasons of dim lighting in a deep litter house in poultry prod | luction |
|    |  | (2mks)  |
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| 10 | . Give three problems associated with lambing                            | (3mks)  |
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| 11. Give two feeding characteristics of goats which make them less vulnera   | able to                                 |
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| internal parasites   | (2mks)                                  |
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| 12. State three maintenance practices carried out on a milking machine       |   |
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|  |   |
| 13. Why is it necessary to weigh and record the birth weights of piglets aft | er birth?                               |
| Give two answers   | (1 mk)                                  |
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| 14. Give three methods that a farmer can employ to ensure maximum power      |   |
| from a donkey carrying luggages.   | (3mks)                                  |
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| 15. State four major qualities of wool.                                      | (2mks)                                  |
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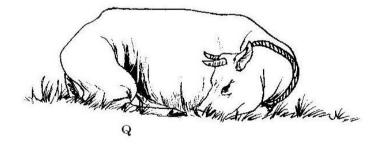
| 16. Give the function of omasum in ruminants                                 | (1mk)                                   |
|--|---|
|  |   |
| SECTION B (20mks)  |   |
| 17. Answer ALL questions in this section below is an illustration of farm of | equipment                               |
| B  |   |
| a) Identify the tool .   | (1mk)                                   |
| b) State the use of the tool in the farm                                     | (1mk)                                   |
|  |   |
| c) Describe the procedure followed when using the tool identified in (a)     | (3mks)                                  |
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18. Study the diagrams below and answer the questions that follow.



| a) Identify the implements in diagram A & B | (2mks) |
|---|--------|
| A   |        |
| B   |        |
| b) Give one function of implements A &B     | (2mks) |
| A   |        |
| B   |        |
| c) List two maintenances of implement A.    | (2mks) |
|   |        |
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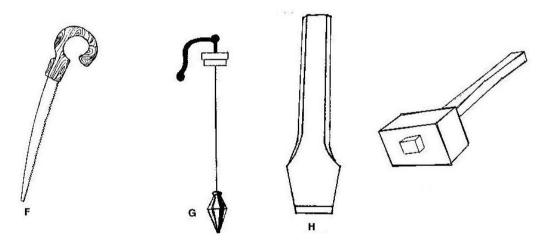
 $19. Diagram \ Q\& \ R \ below \ illustrated \ livestock \ deficiency \ diseases \ , \ study \ the \ diagrams \\ and \ answer \ the \ questions \ that \ follow.$ 





| a) i) Identify the cause of conditions in Q and R                 | (2mks)    |
|---|-----------|
| Q   |           |
| R   |           |
| ii) Name the deficient nutrients in Q & R.                        | (2mks)    |
| Q   |           |
| R   |           |
| b) Calculate how much of wheat (10%) D.C.P) would be mixed with s | sunflower |
| feed cake (35%) D.C.P) to come up with duck mash 20% D.C.P        | (3mks)    |

20. The diagram below shows a farm equipments .Study it and answer the questions



a) Name the tools illustrated in F, G, H, J

## SECTION C (40 mks)

## Answer ANY TWO questions in this section.

| 21.a) Describe the uses of power take off (P.T.O) in tractor              | (5mks)  |
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| b) Name any six essential parts of a spray race and describe their functi |         |
|   | (10mks) |
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| c) Give advantages of Kenya Top Bar Hive                    | (5mks)                               |
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| a) Outline the routine management practices of piglets from | n $1^{ m st}$ day to the $8^{ m th}$ |
| week.   | (10mks)                              |
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| b) Describe the advantages of artificial insemination in livestoc   |                            |
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| <ul><li>23.a) Write short notes on foot and mouth disease under the following.</li><li>i) Causative agent and animals affected.</li></ul> | owing sub headings. (2mks) |
| i) Causative agent and annuals affected.  | , ,                        |
|   |                            |
|   |                            |
|   |                            |
| ii) Mode of transmission and incubation period  | (2mks)                     |
|   |                            |
|   |                            |
|   |                            |
| iii) Symptoms and control measures  | (6mks)                     |
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| B. Describe the importance of keeping healthy livestock | (10mks)                                 |
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