

Name Index No.

SchoolCandidate's signature

Date

443/2

AGRICULTURE
Paper 2

July/August 2018

Time 2 hours

FORM FOUR END OF SECOND TERM EXAM
Kenya Certificate of Secondary Education
AGRICULTURE
Paper - 443/2
July/August 2018
Time: 2 hours

INSTRUCTIONS TO CANDIDATES

- Write your name and Index number in the spaces provided above.
- Sign and write the date of the examination in the spaces above.
- This paper consists of THREE sections A, B and C.
- Answer ALL questions in section A and section B and Two questions in section C.
- All answers must be written in this booklet.

FOR EXAMINER'S USE ONLY

Section	Questions	Maximum score	Candidate's score
A		30	
B		20	
C		20	
		20	
Total score		90	

This paper consists of 10 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 questions in this section on the spaces provided.

1. List four tools used in laying concrete blocks in construction of a wall. (2 marks)

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2. Give two reasons why farmers prefer to keep hybrid birds to pure breeds. (1 mark)

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3. Differentiate between notifiabbe disease and zoonotic disease. (2 marks)

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4. Outline any four signs of infestation by external parasites in livestock. (2 marks)

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5. State four factors that determine nutritional requirements in dairy goats. (2 marks)

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6. Give four advantages of artificial insemination. (2 marks)

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7. Outline four importance of castration in male animals. (2 marks)

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8. State the function of each of the following tools in bee handling. (1 mark)

a. Bee bush

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b. Hive tool

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c. Hive knife

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9. State four properties of concrete that make it suitable for constructing farm buildings. (2 marks)

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10. Give two reasons why maintenance of farm structure is important. (1 mark)

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11. Name two non - contagious protozoa diseases of livestock. (1 mark)

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12. State four signs of foot rot in sheep. (2 marks)

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13. List four factors a farmer should consider when grading eggs for marketing. (2 marks)

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14. Outline four routine management practices carried out in female calves. (2 marks)

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15. Give four functions of lubricants in an engine. (2 marks)

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16. Name the dairy breed of cattle that : (1 mark)

i. Produces the highest amount of milk per lactation period.

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ii. Produces milk with lowest butter fat content.

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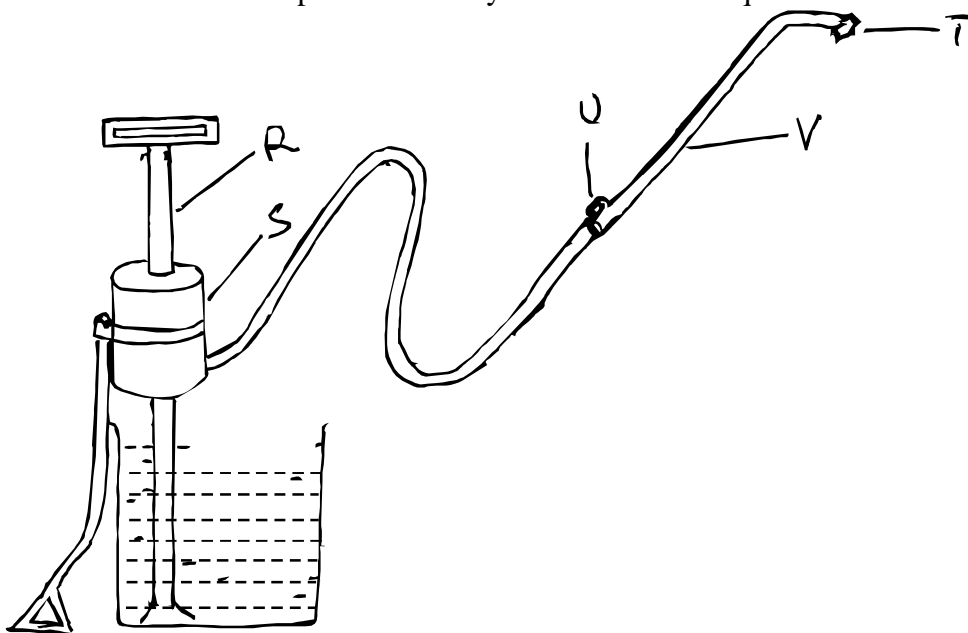
17. State two socio-cultural uses of cattle in Kenya. (1 mark)

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Section B (20 marks)

Answer ALL the questions on the spaces provided.

18. The diagram below shows a farm experiment. Study it and answer the questions that follow.



a. Identify the experiment. (1 mark)

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b. Give the appropriate use of the equipment above. (1 mark)

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c. Name the part labeled R. (1 mark)

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d. What is the function of the part labeled T.? (1 mark)

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e. Give one maintenance practice of the equipment. (1 mark)

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19. Compute 100Kg ration for layers containing 16% DCP using a mixture of maize 8 % DCP and sorghum 8.8 % in the ratio 1:1 and cotton seed cake 24 % DCP. (6 marks)

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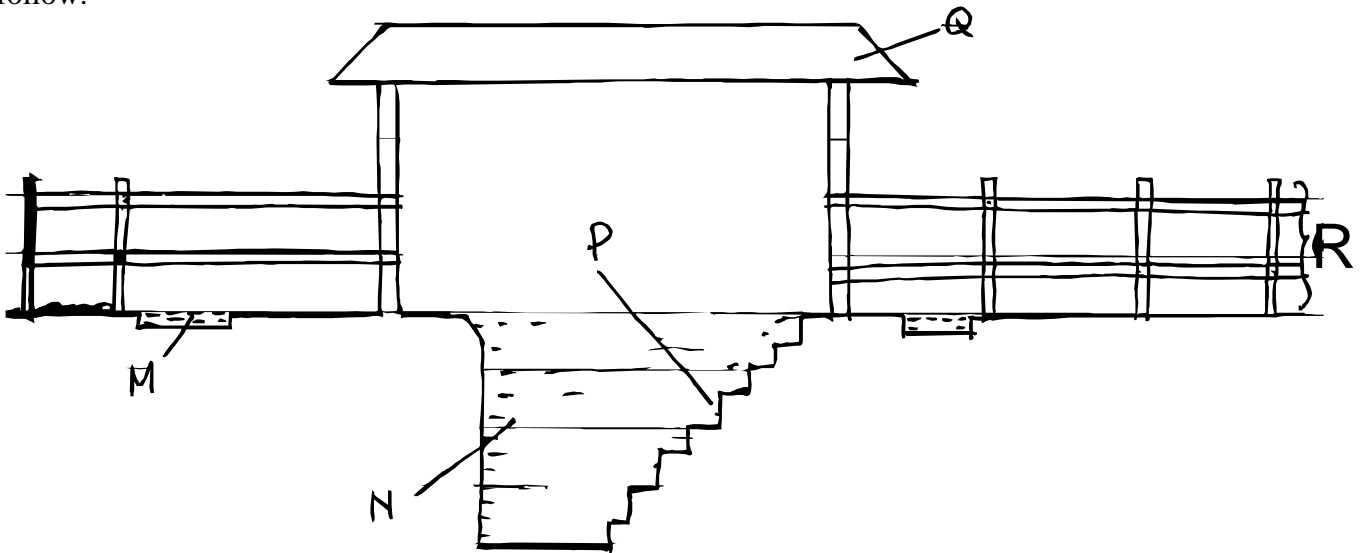
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20. The diagram below shows a livestock handling structure. Study it and answer the questions that follow.



a. Identify the structure above. (1 mark)

b. Identify the parts labeled M, N, P and Q. (4 marks)

M

N.....

P.....

Q

c. Give one importance of each of the parts labeled M and P. (2 marks)

M

P

d. Give two structural features of the part labeled R. (2 marks)

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Section C (40 marks)

Answer any two questions in this section

21. a. Describe short term tractor servicing. (10 marks)
- b. Outline the practices carried out in a deep litter poultry rearing system to control diseases and parasites. (10 marks)
22. a. What are predisposing factors of a disease? (1 mark)
- b. Describe mastitis under the following sub-headings
- i. Causal organism. (1 mark)
- ii. Predisposing factors (4 marks)
- iii. Symptoms. (4 marks)
- c. Describe factors that may necessitate culling in livestock production. (10 marks)
23. a. Describe the management practices that a farmer should carry out to increase milk production in the a yielding herd. (10 marks)
- b. Outline general methods of disease control. (5 marks)
- c. State and explain five parts of a zero grazing unit. (5 marks)

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