

Name Index No.

SchoolCandidate's signature

Date

443/2

AGRICULTURE
Paper 2

July/August 2017

Time 2 hours

FORM FOUR END OF SECOND TERM EXAM

Kenya Certificate of Secondary Education

AGRICULTURE

Paper - 443/2

July/August 2017

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.

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. Study the table below and fill in the missing words. (3 marks)

Description	Cattle	Pig	Poultry
Young from birth / hatching to weaning			Chick
Young female before first parturition		Gilt	
Mature male for breeding	Bull		

2. Name two viral diseases that affect each of the following livestock species.

a) Cattle (1 mark)

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b) Poultry. (1 mark)

.....

3. Name one intermediate host for each of the following livestock parasites.

a) Liverfluke (*Fasciola* spp) (½ mark)

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b) Tapeworm (*Taenia* spp) (½ mark)

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4. Give four reasons for feeding a lamb on colostrum. (2 marks)

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5. State four harmful effects of tsetse flies (*Glossinia* spp) in livestock. (2 marks)

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6. Why is raddling essential in sheep management. (1 mark)

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7. State four limitation of using hydroelectric power on the farm. (2 marks)

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8. List **four** categories of livestock diseases. (2 marks)

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9. List two appropriate handtools needed to finish off the handle of a fork jembe. (1 mark)

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10. What is cropping in fish farming? (1 mark)

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11. Give **four** reasons why camels are suited to living in arid areas. (2 marks)

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12. Name two functions of the crop in the digestive system of chicken. (2 marks)

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13. Mention six causes of stress to a flock of layers. (3 marks)

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14. Name two livestock diseases that are caused by protozoa. (1 mark)

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15. Give two ways in which proper nutrition help to control livestock diseases. (1 mark)

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16. State four factors that would contribute to the depreciation of farm equipment. (2 marks)

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17. Name the complementary tools for each of the tools named below. (2 marks)

i) Trochar

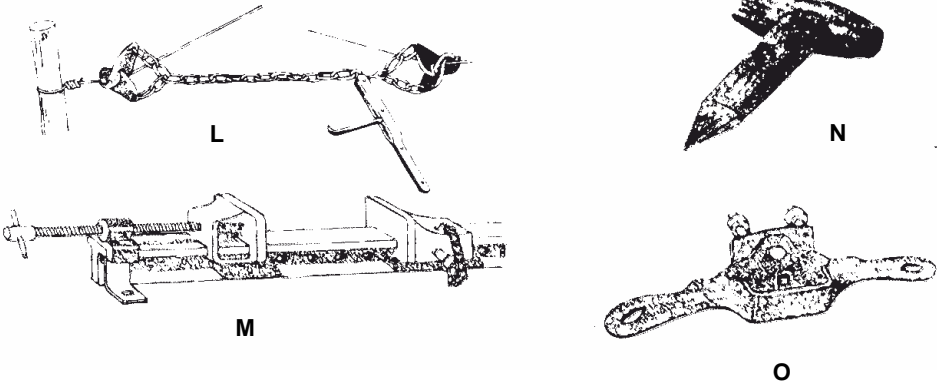
ii) Hand drill.....

SECTION B (20 marks)
Answer all questions in this section in the spaces provided.

18. A dairy farmer is required to prepare 100kg of dairy meal containing 20% digestible crude protein (DCP). Using Pearson's square method calculate the quantity of soya beans 40% DCP) and rice (16% DCP) the farmer would require for the dairy meal. (4 marks)

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19. L, M, N and O are diagrams of farm tools. Study them and answer the questions that follow.



i) Identify the farm tools. (2 marks)

L

M

N

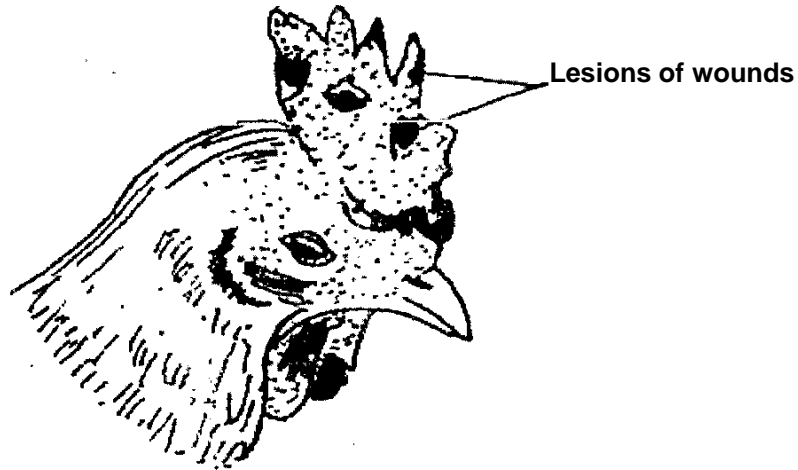
O

ii) State the use of each tool.

(2 marks)

- L
- M
- N
- O

20. The following diagram illustrate a symptoms of a diseases in poultry. Study it carefully and answer the questions that follows.



a) Identify the disease.

(1 mark)

.....

b) State the causal organism

(1 mark)

.....

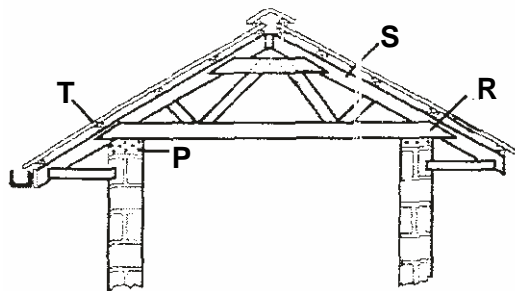
c) Apart from the lesions, state two other symptoms of the disease.

(2 marks)

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21. The following diagram shows parts of a roof. Study it carefully and answer the questions that follow.



a) Name the parts labelled.

(2 marks)

P

T

R

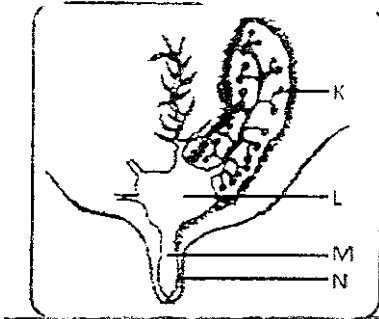
S

b) State the functions of P and R (2 marks)

P

T

22. The diagram is a cross section of a cow's udder.



a) Name part labelled (2 marks)

K

L

M

N

b) State the functions of the hormones oxytocin and adrenaline in milk letdown in livestock. (2m arks)

oxytocin

adrenaline

Section C (40 marks)

Answer any two questions in this section

23. a) Name any five reasons for culling in livestock production. (5 marks)

b) Describe Gumboro under the following subheading.

i) Animal affected. (1 mark)

ii) Causal organisms. (1 mark)

iii) Incubation period. (1 mark)

iv) Symptoms of attack. (5 marks)

iv) Control (2 marks)

c) State the maintenance practices carried out on a water cooled tractor engine. (5 marks)

24. a) Outline four function of vitamins in livestock nutrition . (4 marks)

b) Explain six control measures of tapeworms in livestock. (6 marks)

c) Outline factors considered when selecting livestock for breeding. (10 marks)

25. a) Outline five benefits of using biogas as a source of power on the farm. (5 marks)

b) Give five advantages of using a subsoiler in seedbed preparation. (5 marks)

c) Explain five factors that a farmer should consider when sitting a bee hive to prevent swarming of bees. (10 marks)

