

NAME:.....INDEX

.....DATE.....

SCHOOL:

.....SIGNATURE.....

443/2
AGRICULTURE
PAPER 2
JULY/AUGUST 2010
TIME: 2HOURS

LAICOMET FORM FOUR EXAMS 2010

Kenya Certificate of Secondary Education

443/2
AGRICULTURE
PAPER 2
JULY/AUGUST 2010

INSTRUCTIONS TO CANDIDATES.

1. Write your name and index number in the spaces provided above
2. Sign and write the date of examination in the space provided above.
3. This paper consists of *THREE* sections A, B, and C.
4. Answer *ALL* questions in section A and B and any *TWO* question in section C.
5. Write your answers in spaces provided.

For Examiners' Use Only

Section	Question	Maximum Score	Candidates score
A	1- 17	30	
B	18-21	20	
C		20	
		20	
Total score		90	

SECTION A (30 marks)

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

1. Name **two** dual purpose breeds of sheep.

(1mrk)

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2. What is a capon?

(1mrk)

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3. State **four** characteristics of eggs suitable for incubation.

(2mrks)

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4. a) What is embryo transplant in livestock production?

(1mrk)

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b) State **three** disadvantages of inbreeding in livestock.

(1½mrk)

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5. Differentiate between **pen mating** and **flock mating**.

(2mrks)

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6. Give roles of engine oil in a tractor.

(2mrks)

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7. Give a reason for using a queen excluder in a beehive.

(2mrks)

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8. State the use of the following tools.

(2marks)

(i) Chipping hammer

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(ii) Stirrup pump

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(iii) Strip cup

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(iv) Trocar and canula
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9. Differentiate between **ringing** and **crutching** in sheep (1mrk)

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10. Give **two** roles of crop in the digestive system of poultry (1mrk)

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11. State **four** reasons why camels are suited to dry environment. (2mrks)

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12. Give **two** aspects of proper and hygienic livestock house (2mrks)

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13. List **four** factors that determine the amount of food consumed by an animal. (2mrks)

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14. What is meant by the following terms as used in livestock breeding?

(i) Epistasis (1mrk)

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(ii) Upgrading (1mrk)

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15. State **four** circumstances that would warrant culling of layers (2mrks)

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16. Give **three** reasons for housing the calves singly in their pens. (1½mrk)

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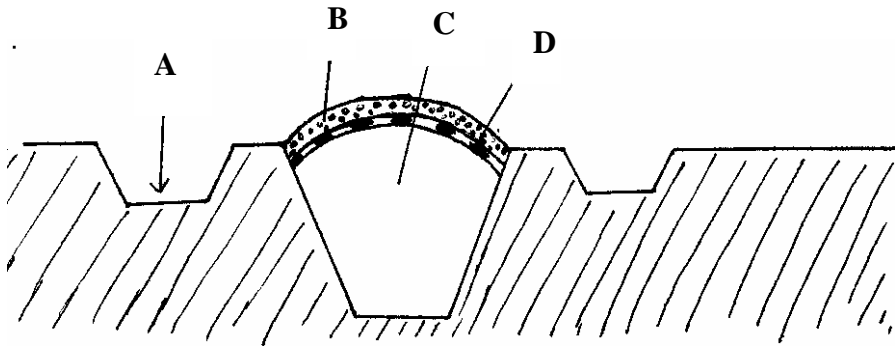
17. Name a vaccine used for control both Anthrax and Black quarter disease in livestock. (1mrk)

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SECTION B 20 MARKS

Answer ALL questions in this section in the spaces provided

18. Study the diagram below showing a farm structure and answer the questions that follow.



a) Identify the type of silo shown. (1mrk)

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b) Name parts labeled A, B, C and D. (2mrks)

A.....

(½mrks)

B.....

(1/2mrks)

C.....

(1/2mrks)

D.....

(1/2mrks)

c) State **four** advantages of using the above method of forage conservation. (2mrks)

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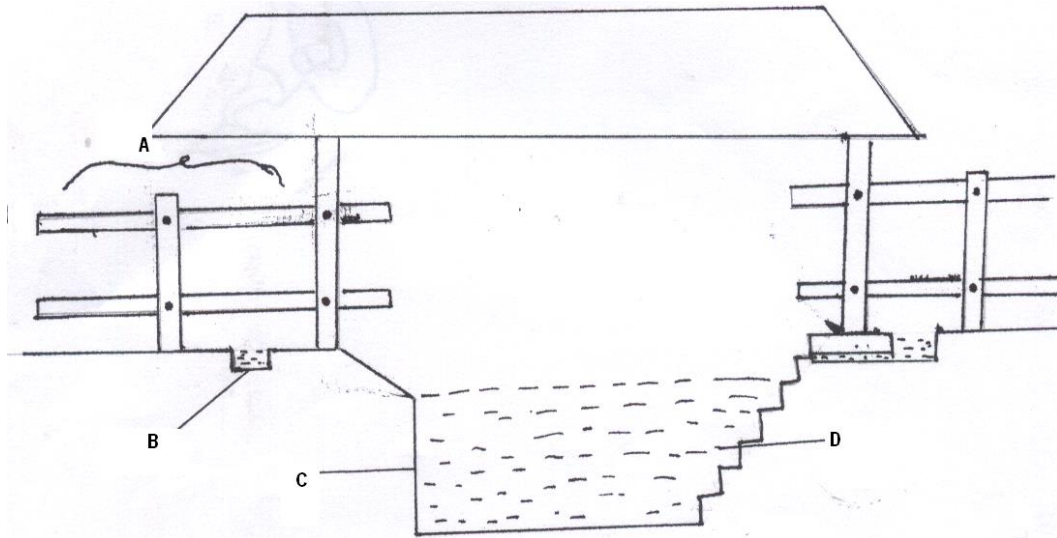
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19. Study the farm structure drawn below and answer the questions that follow.



a) Identify the farm structure. (1mrk)

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b) Name parts labeled A, B, C and D. (2mrks)

A
(½mrk)

B
(½mrk)

C
(½mrk)

D
(½mrk)

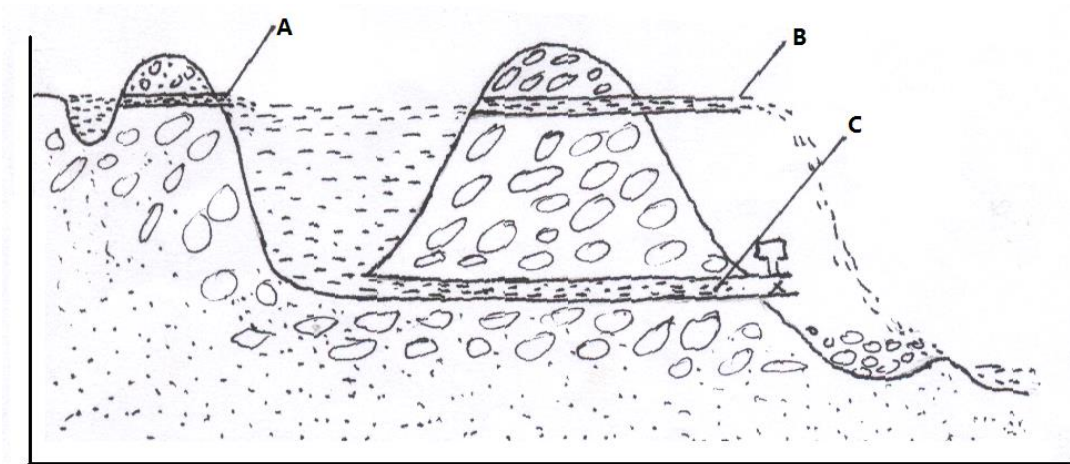
c) What is the function of the parts labeled B? (1mrk)

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d) State **two** advantages of using the above farm structure. (1mrk)

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20. The diagram drawn shows the cross section of a fish pond. Study it and answer questions that follow.



a) Name parts labeled A, B, C, and C

A
(½mrk)

B
(½mrk)

C
(½mrk)

b) State the function of the parts A ,B, and C

(3mrks)

A.....

B.....

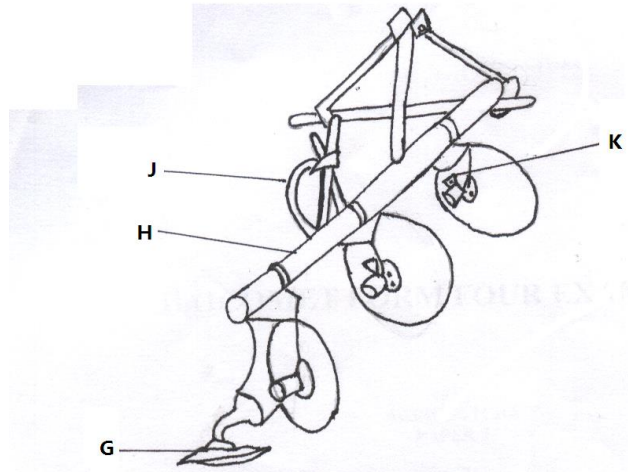
C.....

c) What is cropping in fish rearing?

(½mrk)

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21. The diagram below shows a farm implement. Study it and answer the questions that follow.



a) Identify the implement illustrated above. (1mrk)

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b) Name the parts labeled G, H, J and K. (2mrks)

G.....
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H.....
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J.....
.....

K.....
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c) Give **one** function of part labelled G (1mrk)

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d) Why is the implement able to work well on a field which is rough or with many obstacles?(1mrk)

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SECTION C (40MARKS)

Answer any two questions from this section in the spaces provided after question 24.

- 22. a) **Outline** the preparation carried out 7-10 days before a sow furrows (5mrks)
- b) **State** signs of furrowing observed in sows. (5mrks)
- c) **State and explain five** marketing factors that affect milk composition. (10mrks)

- 23. a) **Explain three** maintenance practices carried out on petrol fuel system of farm machinery
- b) **Outline five** structural and functional differences between petrol and diesel engine.(5mrks)
- c) **State** the causes of the following faults of ignition system in a tractor
 - (i) Sudden stopping (2mrks)
 - (ii) Continuous engine-running (3mrks)
- d) **Explain care and maintenance** practices carried out on a tractor battery. (7mrks)

- 24. a) **Describe lifecycle** of three host tick. (6mrks)
- b) Under the following sub- headings **discuss East Coast Fever**
 - (i) Causal organism (1mrk)
 - (ii) Symptom of attack (6mrks)
 - (iii) Control and treatment (3mrks)
- c) **State four reasons** for castrating farm animals. (4mrks)

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