

NAME..... INDEX NO.....

443/2  
AGRICULTURE  
PAPER TWO  
(THEORY)  
JULY/AUGUST 2010  
TIME: 2 HOURS

**KENYA CERTIFICATE OF SECONDARY EXAMINATION**  
**FORM FOUR EVALUATION EXAMINATION**

**INSTRUCTIONS**

1. Write your name and index number in the spaces provided.
2. The paper consist of three sections A, B & C.
3. Answer all questions in sections A and B in the spaces provided and any two questions in section C in the spaces provided.

**FOR EXAMINERS USE ONLY**

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 - 16	30	
B	17 – 21	20	
C	22	20	
	23	20	
	24	20	
TOTAL SCORE		90	

**SECTION A (30 MARKS)**

Answer all questions in this section in the spaces provided.

1. Name the camel breed with two humps. (1 mk)

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2. List two disadvantages of animal drawn implements. (2 mrks)

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3. Name the vectors for each of the following livestock diseases. (2 mrks)

a) East coast fever.....

b) Rift valley fever.....

c) Trypanosomiasis.....

d) Nairobi sheep disease.....

4. Give four factors considered when selecting a site for fish pond. (2 mrks)

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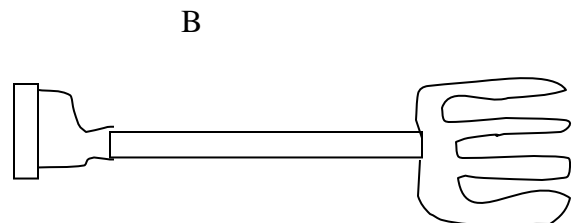
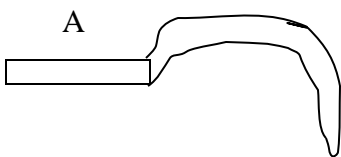
5. List two implements that can be connected to the power take off shaft (PTO) of a Tractor. (1 mk)

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.....

6. State two methods of increasing the depth of penetration of a disc harrow. (2 mrks)

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7. The diagram below represents Farm tools



a) Identify each tool (1 mk)

A.....

B.....

b) State one use of the tool B. (1 mk)

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c) State one maintenance practise carried on tool A. (1 mk)

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8. State four pre-disposing factors of mastitis disease in cattle. (2 mrks)

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9. Outline four factors which would be considered when culling livestock animals. (2 mrks)

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10. Give four reasons for choosing corrugated iron sheets in roofing of farm stores instead of tiles. (4 mrks)

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11. What is the purpose of fixing a ring around nostrils of a bull. (1 mk)

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12. State one use of each of the following parts found in a tractor.

a) Carburettor..... (1 mk)

b) Spark plug ..... (1 mk)

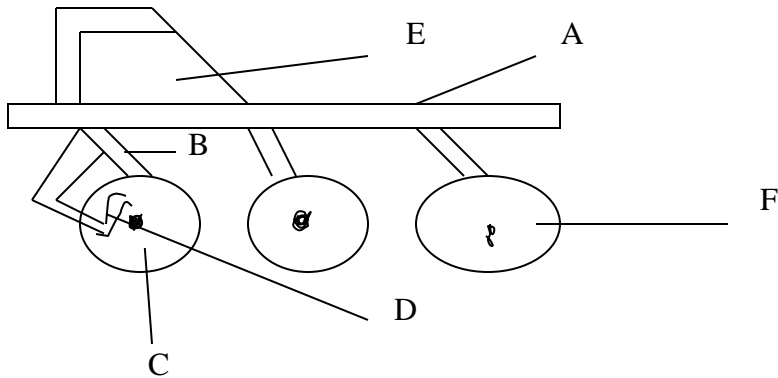
13. Name the mineral whose deficiency symptom is Grass tetany in livestock. (1/2 mk)  
 .....
14. Give three post-milking activities in dairy cattle. (1 ½ mrks)  
 .....  
 .....  
 .....
15. Name two livestock diseases controlled by the same vaccine and name the vaccine. (1 ½ mrks)  
 Disease (i) .....  
 (ii) .....  
 Vaccine .....
16. State the role of the following hormones in livestock production. (2 mrks)  
 (i) Prolactin.....  
 (ii) Oxytocin .....
17. Name one parasite of bees. (1/2 mrks)  
 .....

**SECTION B**

Answer all questions in this section in the spaces provided.

18. a) Define the term food conversion ratio (FCR) (1 mk)  
 .....  
 .....
- b) If a layer consumed 1kg of layers mash in a week, calculate its FCR if in the same week, it laid four eggs weighing 70gms, 55gms, 62gms and 63gms .(Show your working) (3 mrks)  
 .....  
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19. Below is a farm implement. Study it and answer the questions that follow.



a) Label parts A, B, C, & F

(2 mrks)

- A .....
- B .....
- C.....
- F .....

b) State functions of parts labelled D and E.

(2 mrks)

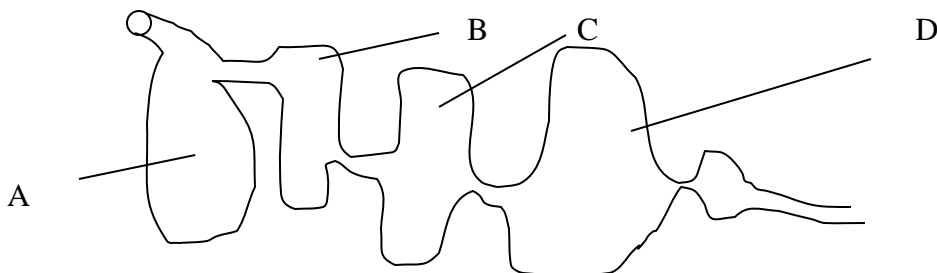
- D.....
- E.....

c) Under what two field conditions is it recommended to use the above implement.

(2 mrks)

- (i) .....
- (ii) .....

20. The following is a portion of a digestive system of a farm animal.



a) Name the class of animals with the above digestive system.

(1 mk)

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b) Name parts labelled B & C.

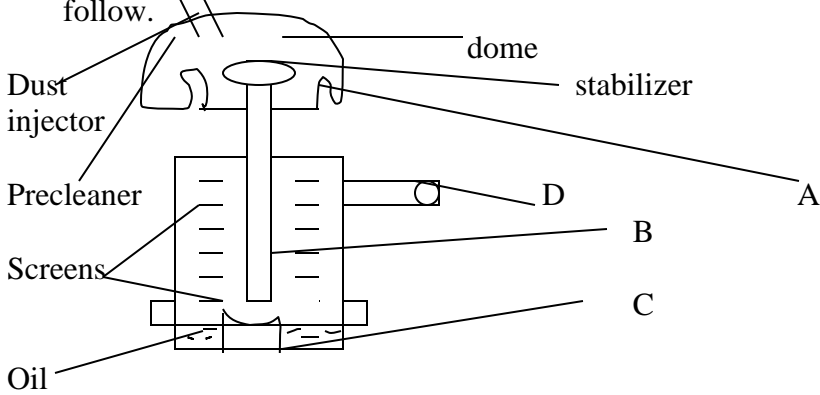
(2 mrks)

- B.....
- C.....

c) What class of food is digested in the part labelled A. (1 mk)

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21. Below is a structure found in the tractor fuel system. Study it and answer the questions that follow.



a) Identify the structure..... (1 mk)

b) Label parts A, B, C, & D (2 mrks)

A.....

B.....

C.....

D.....

c) Use arrows to indicate movement of air in the structure. (1 mk)

d) State one factor that determines how often one should service this part of tractor. (1 mk)

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22. a) State three properties of concrete that make it suitable for constructing farm building. (3 mrks)

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b) A part from concrete, name two other materials that would be required to construct floor of milking parlour. (1 mk)

(i).....

(ii).....

c) Name any two types of materials that would be suitable to use as litter in a brooder. (1 mk)

(i).....

(ii).....







