

NAME \_\_\_\_\_

ADM NO \_\_\_\_\_

SCHOOL \_\_\_\_\_ SIGNATURE \_\_\_\_\_

AGRICULTURE  
FORM FOUR  
443/2  
PAPER 2  
MARCH/APRIL 2013  
TIME: 2HRS

**PENTAGON JOINT EXAMINATION - 2013**  
**WARENG DISTRICT**

*(Kenya Certificate of Secondary Education) K.C.S.E*

**Instructions :**

- Write your Name and Index Number in spaces provided above
- This paper consists of three sections A, B and C
- Answer all questions in section A, and B and any other two questions in section C in the spaces provided in this booklet

**FOR EXAMINERS USE ONLY**

SECTION	QUESTION	MAXIMUM SCORE	CAND. SCORE
A	1-20	30	
B	21-23	20	
C	24-26	20	
		20	
<b>TOTAL SCORE</b>		<b>90</b>	

**Section A (30 MARKS)**

**Instructions: Answer ALL the questions in this section in the spaces provided**

1. What is 'dry cow therapy'? (1 mark)  
\_\_\_\_\_  
\_\_\_\_\_
2. Name a tool used for tightening barbed wires during fencing. (½ mark)  
\_\_\_\_\_
3. Name two methods used by farmers to prevent piglet anaemia. (1 mark)  
\_\_\_\_\_  
\_\_\_\_\_
4. State any four causes of stress to a flock of layers. (2 marks)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. In concrete making, what do the numbers 1:2:3 in a ratio stand for. (1 ½ marks)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Name four structural features in a fish pond. (2 marks)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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7. List three harmful effects of tsetse flies on livestock. (1 ½ mark)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. Identify four physical characteristics of beef cattle. (2 marks)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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9. List four causes of infertility in cattle. (2 marks)  
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10. State four predisposing factors of mastitis disease in cattle. (2 marks)

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11. Suggest three factors that make embryo transplant unpopular with many livestock farmers (1 ½ mark)

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12. Outline the reason for arranging brick in overlapping manner during the construction of farm buildings. (½ mark)

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13. State four factors that may lead to culling in dairy cattle. (2 marks)

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14. Differentiate between vectors and parasites as used in livestock health. (1 mark)

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15. a) Suggest three reasons why ewe may abandon their lambs. (1 ½ marks)

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b) Name the breed of rabbit with white body and red eyes. (½ mark)

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16. List four ways in which vaccines may be administered to an animal. (2 marks)

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17. State three functions of feed additives in livestock production. (1 ½ marks)

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18. What is the name given to each of the following. (2 marks)

i) Castrated cock

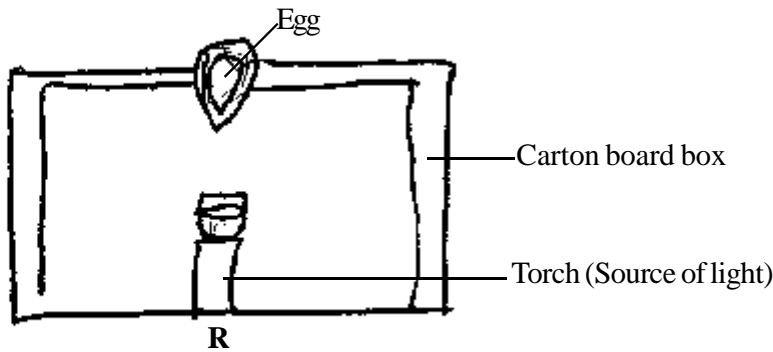
ii) Feeding of livestock a few weeks before parturition.

19. Give two reasons for washing a cow's udder with warm water before milking (2 marks)

**SECTION B (20 MARKS)**

Answer ALL the questions in this section on the spaces provided.

20. Diagram R below illustrates an activity carried out by a poultry farmer keeping layers. Study it carefully and answer the questions that follow.

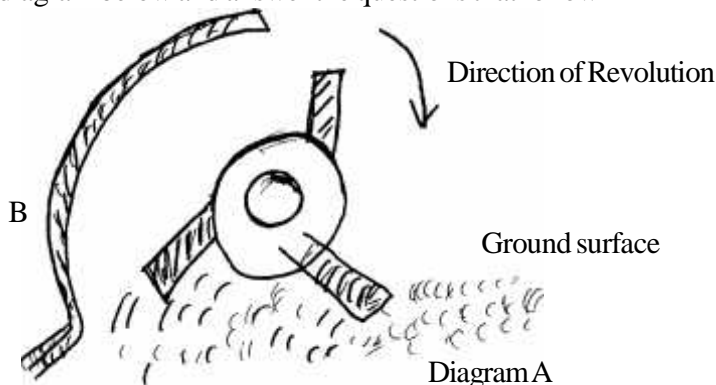


a) Identify the activity being carried out in set up R (1 mark)

b) State four reasons why the activity set up in R is necessary before incubation of eggs. (4 marks)

c) Why is it necessary to use carton board box? (1 mark)

21. Study the diagram below and answer the questions that follow



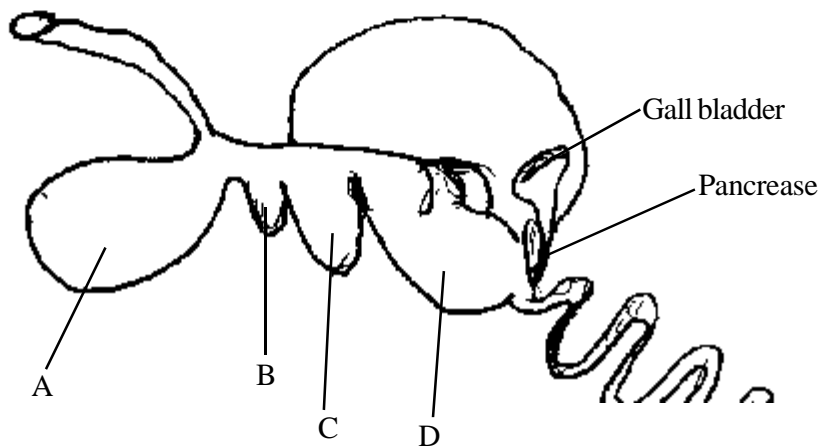
a) Identify the implement labelled A (1 mark)

b) i) State the field conditions where implementation A is useful. (1 mark)

ii) State the functions of the part labelled B (1 mark)

c) Outline two major maintenance practices of the above implement. (2 marks)

22. Study the diagram below and use it to answer the questions that follow.



a) Name the stomach parts labelled:- (2 marks)

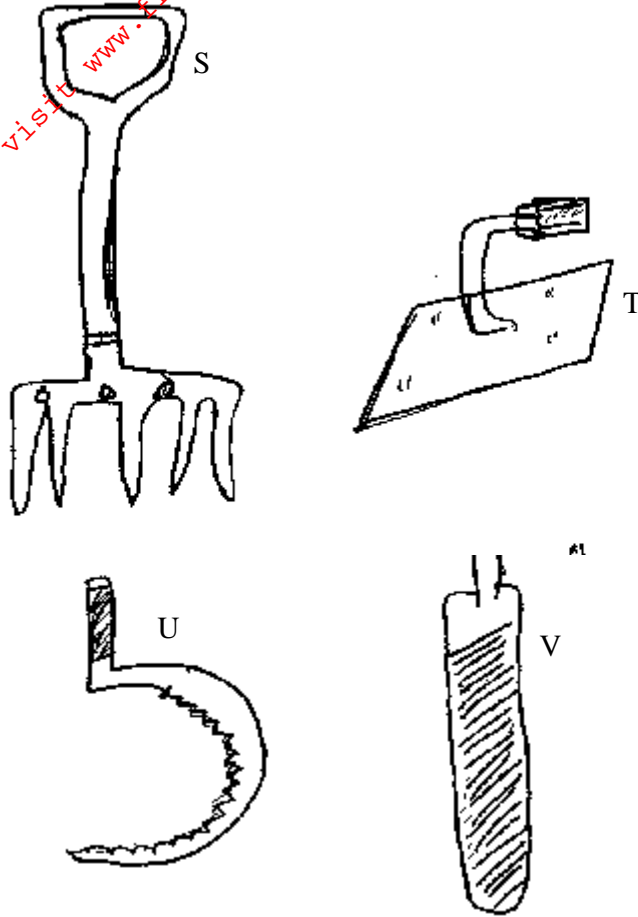
A \_\_\_\_\_  
B \_\_\_\_\_  
C \_\_\_\_\_  
D \_\_\_\_\_

b) i) Which class of animals does the digestive system drawn represent?. (1 mark)

\_\_\_\_\_

- ii) Suggest the type of diet for the above class of animals which form the bulk of the food given to the animal. (1 mark)

23. Study the illustrations below and answer the questions that follow



- a) Identify the tools S,T,U,V (2 marks)

S \_\_\_\_\_

T \_\_\_\_\_

U \_\_\_\_\_

V \_\_\_\_\_

- b) State the function of each tool (2 marks)

S \_\_\_\_\_

T \_\_\_\_\_

U \_\_\_\_\_

V \_\_\_\_\_

- c) Identify two ways in which a farmer can maintain tool S (1 mark)

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**SECTION C (40 MARKS)**

**Answer ANY TWO questions from this section in the spaces provided after question 26**

- 24. a) Describe the artificial rearing of a day old chick to the end of brooding (12 marks)
- b) Explain four practices observed in clean milk production (8 marks)
  
- 25. a) Describe the uses of farm fences (8 marks)
- b) State the functions of each of the following parts of a roof. (4 marks)
  - i) Eaves
  - ii) Wall plate
  - iii) Rafter
  - iv) Strut
- c) Name any two chemical preservative used to treat the wooden parts of the roof against insects and fungal damage. (4 marks)
- d) State four advantages of using tractor hire service in farming instead of owning and using your own tractor. (4 marks)
  
- 26. a) Describe the differences between diesel and petrol engines. (10 marks)
- b) State five care and maintenance practices done to a tractor battery. (5 marks)
- c) Explain the procedure of harvesting honey from the Kenya top bar hive. (5 marks)

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