

SUKEMO JET
AGRICULTURE
PAPER II
JULY/AUGUST 2016

1. State the two major physical difference between a Landrace and a Large White Pig. (2 marks)

2. (a) Name **two** livestock diseases that are controlled through use of same vaccine. (2 marks)

(b) Name the vaccine as in 2 (a) above. (½ mark)

3. Name **two** diseases that attack bees. (2 marks)

4. State **two** distinguishing external characteristics of Californian White Rabbit. (2 marks)

5. State the functions of the following hormones in livestock.
(a) Oxytocin. (1 mark)

(b) Stilboesterol. (1 mark)

6. Name **four** species of fresh water fish reared in Kenya. (2 marks)

7. Give **three** methods of feeding colostrums to a Newly Born Calf. (1½ marks)

8. State **four** advantages of using Kenya Top Bar Hive over Log Hive. (2 marks)

9. List **four** factors that would ensure clean milk production. (2 marks)

10. State **two** reasons for clipping the Upper Beak in poultry management. (1 mark)

11. State **two** ways of preventing predation in a fish pond. (2 marks)

12. Differentiate between crutching and ringing. (1 mark)

13. Name **two** major physical differences between Dromedary and Bacterian Breeds of camel. (1marks)

14. State **four** major Routes of Administering vaccines in a day old chick. (2 marks)

15. State **four** measures that prevent egg eating in poultry. (2 marks)

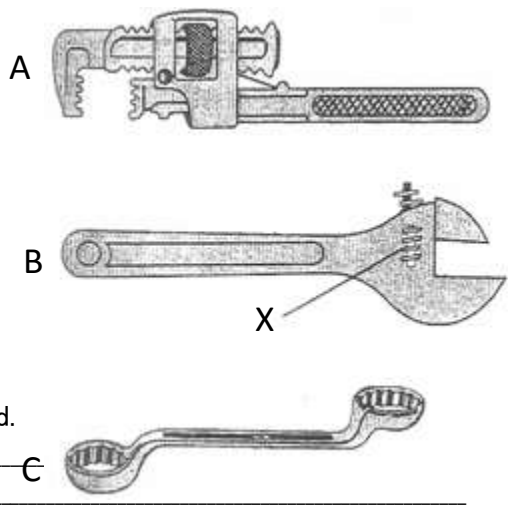
16. Give **four** factors determining the amount of water taken by an animal. (2 marks)

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17. List **two** factors considered in sorting and grading eggs for market. (2 marks)
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18. List any **four** predisposing factors of livestock diseases. (2 marks)
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19. (a) Define the term immunity as used in livestock health. (1 mark)
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- (b) List **four** causes of livestock diseases. (2 marks)
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20. Name **two** structures used in the control of ticks. (1 mark)
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21. (a) State **two** possible causes of soft shelled eggs. (1 mark)
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- (b) State **two** qualities of good eggs for incubation. (1 mark)
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SECTION B: (20 MARKS)

Answer all questions in this section in the spaces provided.

22. The diagram below show some workshop tools. Study the diagrams and answer the questions that follow.



- (a) Identify tools labelled. (3 marks)
- A _____
- B _____
- C _____

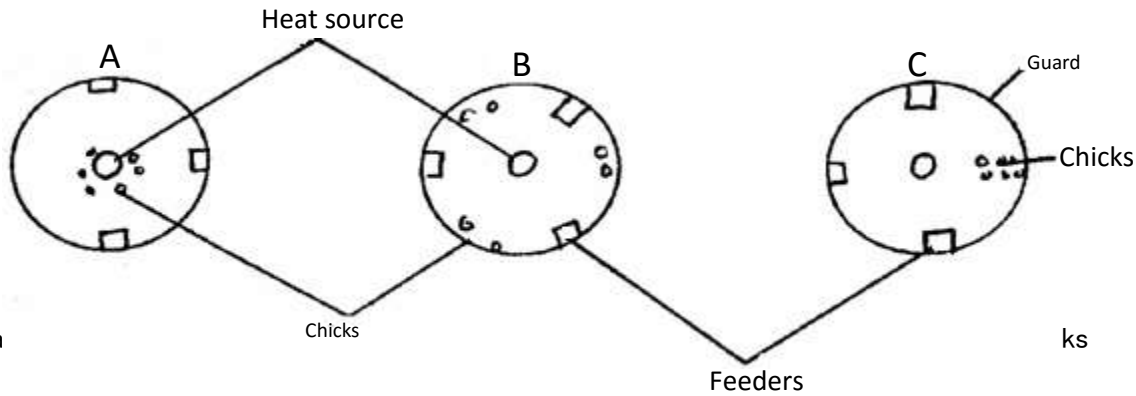
C _____

(b) What functional advantage does the tool labelled **B** have over tool **C**? (1 mark)

(c) State the function of the tool labelled **A**. (1 mark)

(d) State the function of part **X** in the tool labelled **B**. (1 mark)

23. Below are diagrams illustrating the behaviour of chicks in various brooders. Study the diagrams and answer the questions that follow.

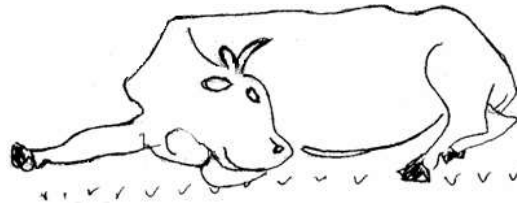


(a) State **one** way of solving the problem in B. (3 marks)

A _____
B _____
C _____

(b) State **one** way of solving the problem in B. (1 mark)

24. Study the illustration shown below and answer the questions that follow.



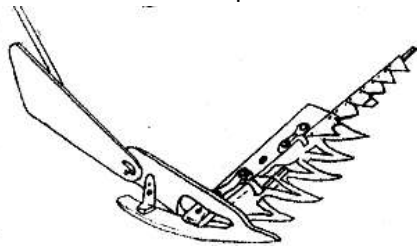
(a) Name the condition shown above. (1 mark)

(b) What causes the condition shown in **24(a)** above? (1 mark)

(c) Explain the treatment of the condition named in **24(a)** above. (2 marks)

25. A farmer computed 100kg ration with 20% DCP from oats which contains 10% DCP and simsim seed cakes containing 60% DCP. Using the Pearson Square method, calculate the amount of each feedstuff in the ration. (3 marks)

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



(a) Identify the implement illustrated in the diagram above (1mk)

(b) Give **one** function of the implement you have named in (a) above (1mk)

(c) Name a source of power that can be used to operate the implement (1mk)

SECTION C: (40 MARKS)

Answer any two questions in this section in the spaces provided after question 29.

27. (a) Describe the management practices that should be carried out on a sow and piglets during the farrowing period. (12 marks)

(b) Explain **five** reasons why a breeding boar may be culled. (5 marks)

(c) State **four** maintenance practices of forked jembe. (3 marks)

28. (a) Describe how the transmission system of a tractor transmits power that is developed in a cylinder to the wheels for motion. (15 marks)

(b) Describe **five** long term tractor services and maintenances. (5 marks)

29. (a) State **six** features of an ideal calf pen. (6 marks)

(b) Describe the uses of fences in the farm. (8 marks)

(c) State **six** factors considered when siting farm structures. (6 marks)