**NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ADM NO.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**AGRICULTURE**

**PAPER 2**

**MWAKICAN JOINT EXAM TERM 2 -2017**

**2 HOURS**

**INSTRUCTIONS**

* **Write your Name and Adm Number in the Spaces Provided.**
* **This Paper Consists of Three Sections A, B and C.**
* **Answer ALL the Questions in Sections A and B and TWO Questions in Section C.**

**For Examiner’s Use Only**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Questions** | **Maximum Marks** | **Candidate’s Score** |
| **A** | **1-17** | **30** |  |
| **B** | **18-21** | **20** |  |
| **C** | **22-24** | **40** |  |
| **TOTAL SCORE** | | **90** |  |

**SECTION A: 30 MARKS**

**Answer All questions in this Section**

1. State four factors that influence the quality of bricks. (2 Marks)

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1. Give four functions of vitamins in livestock production. (2 Marks)

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1. Give two characteristics of a good creep feed. (1 Mark)

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1. State two uses of pick axe. (1 Mark)

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1. Give two reasons of holding animals for a short period in the outlet crush after dipping.

(1 Marks)

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1. i) State two reasons for culling breeding sow. (1 Mark)

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ii) Differentiate between ringing and crutching in sheep production. (1 Mark)

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1. What is the functional difference between cold chisel and wood chisel? (2 Marks)

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1. State three characteristics of goats that make them adaptable to arid-areas of Kenya.

(1 ½ Marks)

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1. Name two methods of harvesting fish. (1 Mark)

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1. List two tools you would require when smoothening concrete walls during plastering.

(1 Mark)

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1. List four farm structures that would assist in control of livestock parasites. (2 Marks)

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1. State six desirable characteristics to be considered when a heifer is being selected for milk production. (3 Marks)

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1. Distinguish between inbreeding and out crossing in livestock production. (2 Marks)

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1. a) Mention six reasons why bees swarm. (3 Marks)

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b) State two methods to stock bee hives. (1 Mark)

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1. State four reasons for castrating a male cattle. (2 Marks)

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1. Give two reasons for steaming up in dairy cattle management. (1 Mark)

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1. Give three reasons why honey harvesting should be discouraged at night. (1 ½ Marks)

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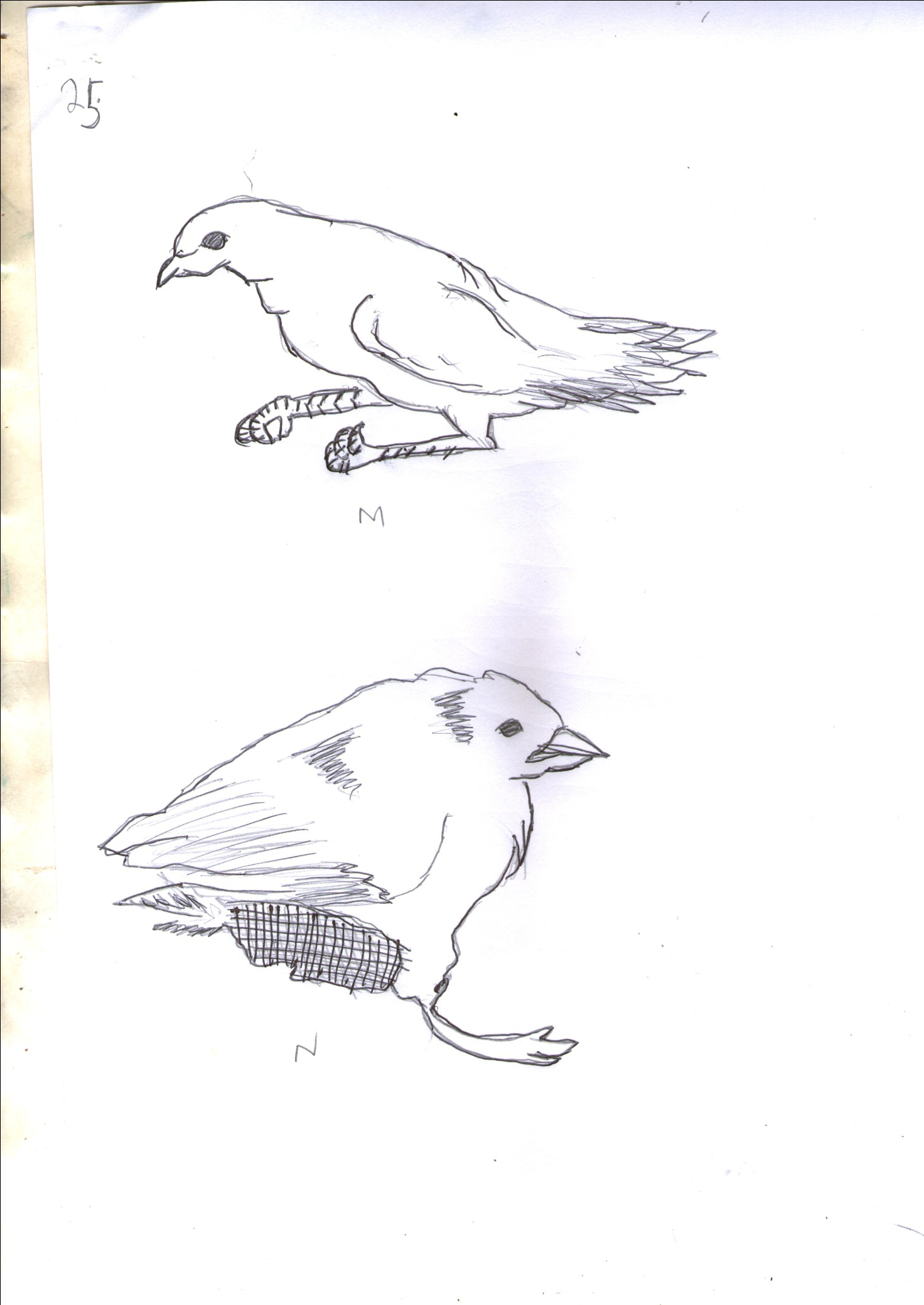
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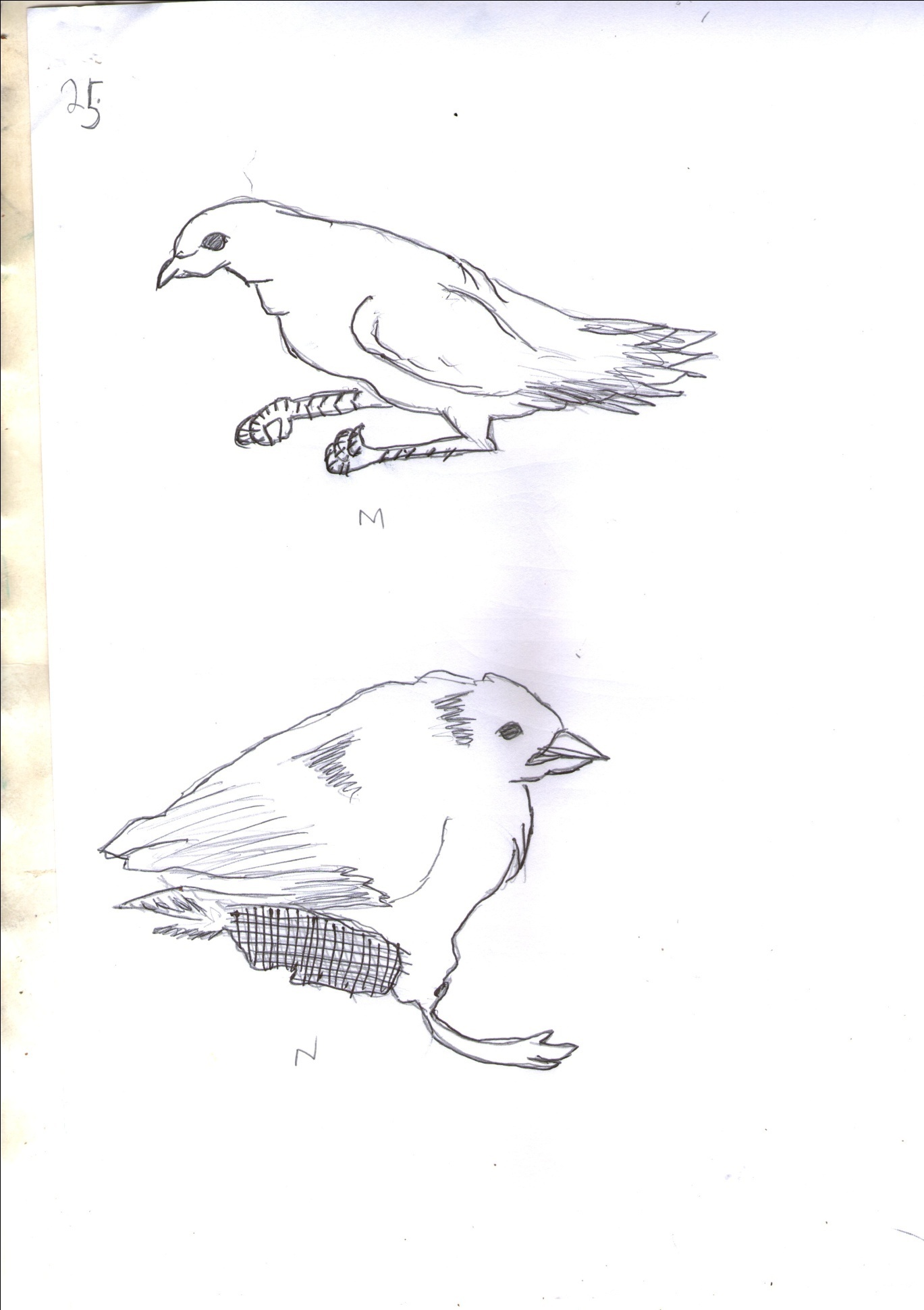
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**SECTION B: 20 MARKS**

**Answer All Questions in this Section**

1. Diagram M illustrates chicks suffering from some essential feed nutrients. Study the diagrams and answer the questions that follow.





1. Outline the deficient nutrient in M and N. (2 Marks)

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N\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. i) Outline one method in each case to control the conditions in M and N. (2 Marks)

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ii) Name two sources of deficient nutrient in N apart from commercial feeds. (2 Marks)

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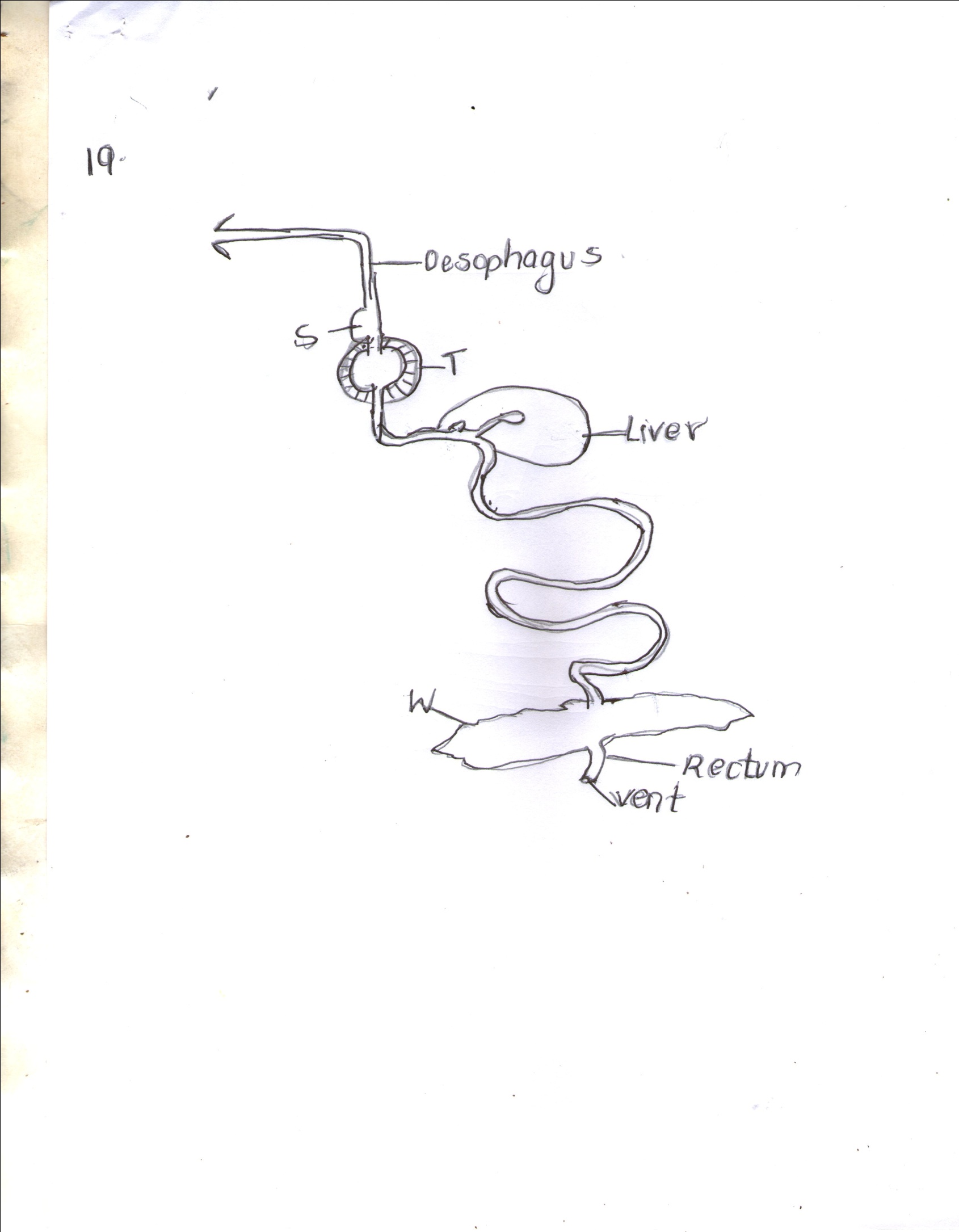
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1. Below is the diagram of a digestive system, use it to answer questions that follow.



1. Which farm animal has a digestive system similar to the above system? (1 Mark)

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1. Name the parts labeled S, T and W. (3 Marks)

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1. Explain the work of the parts S and T. (2 Marks)

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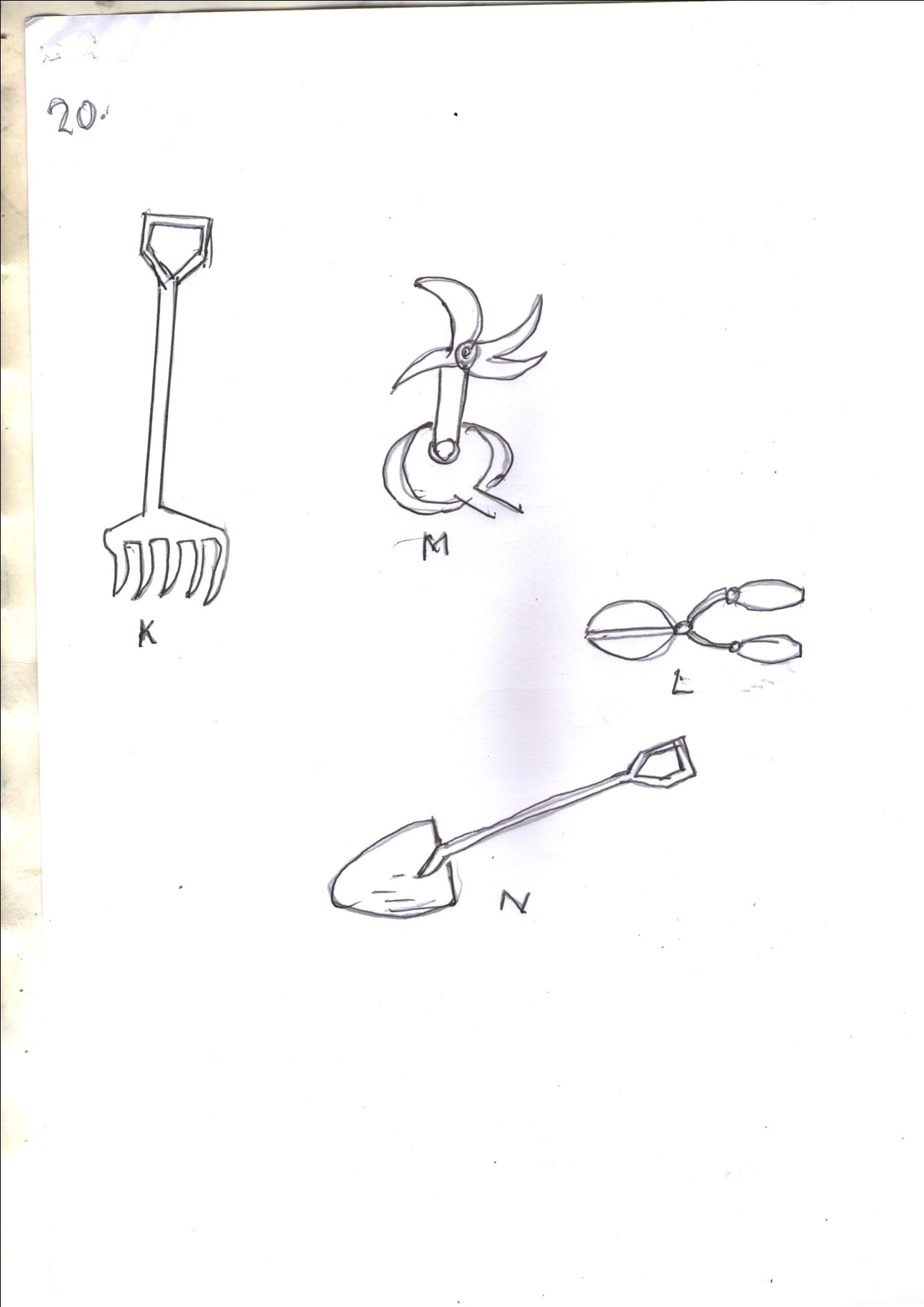
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1. Study the diagram below and answer questions that follow.



1. Identify the tools K, L, M and N. (2 Marks)

K\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

L\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

M\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

N\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

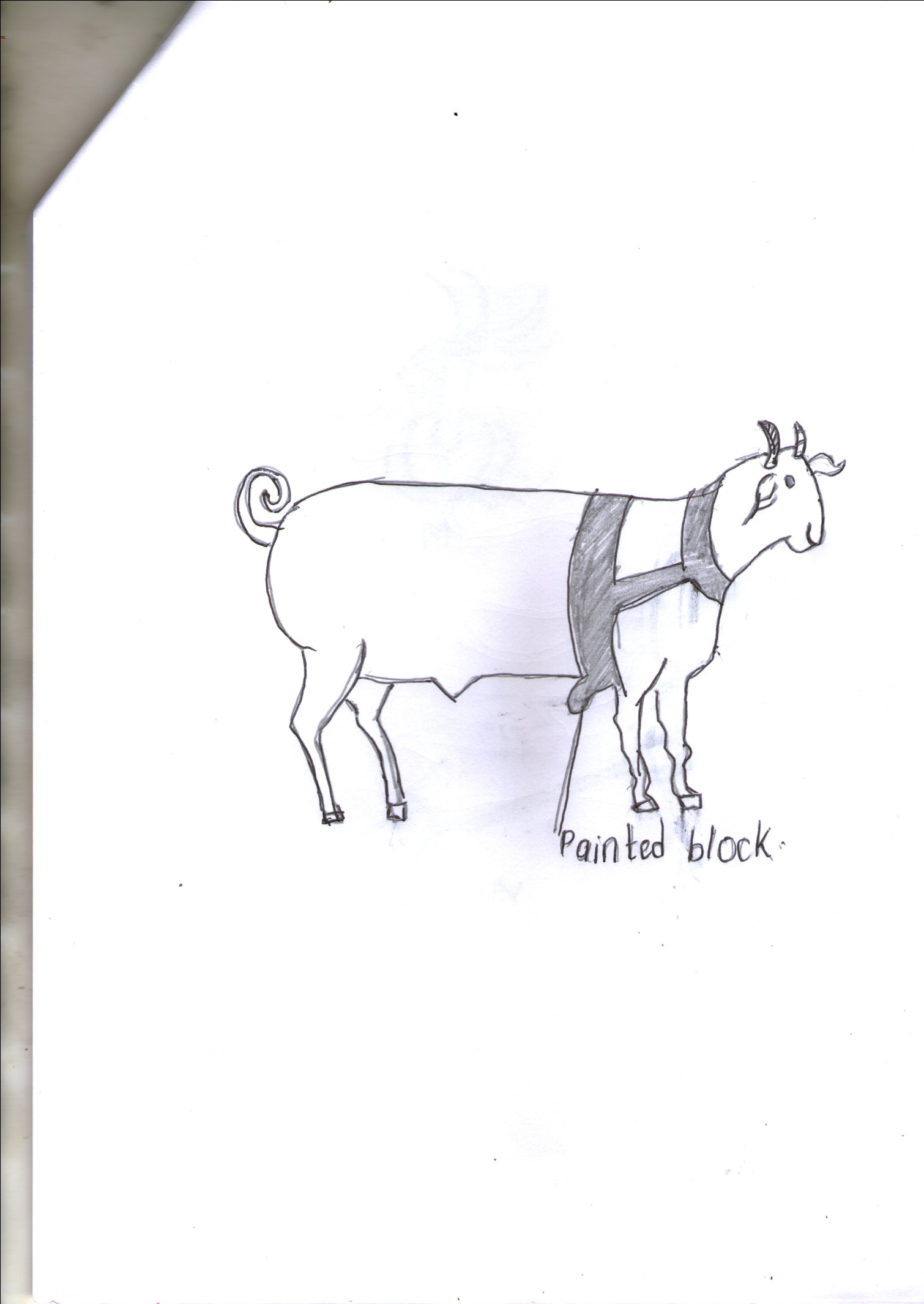
1. Give the use of K and L. (2 Marks)

K\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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L\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The diagram below illustrates a breeding management practice.



1. Identify the practice. (1 Mark)

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1. Outline three reasons for carrying out the practice. (3Marks)

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**SECTION C: 40 MARKS**

**Answer any TWO Questions in this Section.**

1. a) Describe the factors to be considered before si ting a cattle dip. (4 Marks)

b) Name any six essential parts of a spray race and describe their functions. (6 Marks)

c) Describe five disadvantages of using a spray race. (5 Marks)

d) Give five advantages of Kenya Top Bee Hive. (5 Marks)

1. a)Describe the management practices carried out on sheep from preparation for mating to weaning of lambs. (12 Marks)

b)State and explain the methods of maintaining farm tools and equipments. (8 Marks)

1. a) Describe the life cycle of a three host tick. (8 Marks)

b) Discuss the methods adapted to control livestock diseases. (12 Marks)

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