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| **AGRICULTURE** |  | **NAME**………………………………………  **CODE……………**  **JUMBO CATEGORY**  **Male ( ) Female ( )**  **ALLIANCE GIRLS’ HIGH SCHOOL TEACHNICALS CONTEST 2023**  **Kenya Certificate of Secondary Education**  ***Instructions to Students*** |  |
| **FORM 3**  *AGRICULTURE*  **DURATION: 1 Hour** |  | 1. Write **ALL** the details in the spaces provided above. 2. Answer **ALL** the questions in the spaces provided. 3. Non-programmable calculators may be used. 4. All working must be shown within the working spaces provided. 5. This paper consists of **7** printed pages. 6. Candidates should check and ascertain that **ALL** the pages are printed and that no question is missing.   ***For Examiner’s Use Only***   |  |  |  | | --- | --- | --- | | ***Questions*** | ***Max. Score*** | ***Candidate’s Score*** | | ***1-18*** | ***50*** |  | |  |

1. A fertilizer has the following characteristics

* White crystalline like sugar
* Highly volatile
* Acidic
* Highly soluble in water

1. Identify the fertilizer (1 mark)

1. Give two reasons why this fertilizer should not be used for planting crops (2 marks)

1. Mention three types of records a farmer growing maize should keep (3 marks)

1. Give three factors that make camels suit for semi-arid areas of Kenya (3 marks)

1. Name the tools used for the following operations
2. Cutting wool from sheep ( ½ mark)

1. Pruning hard branches of coffee ( ½ mark)

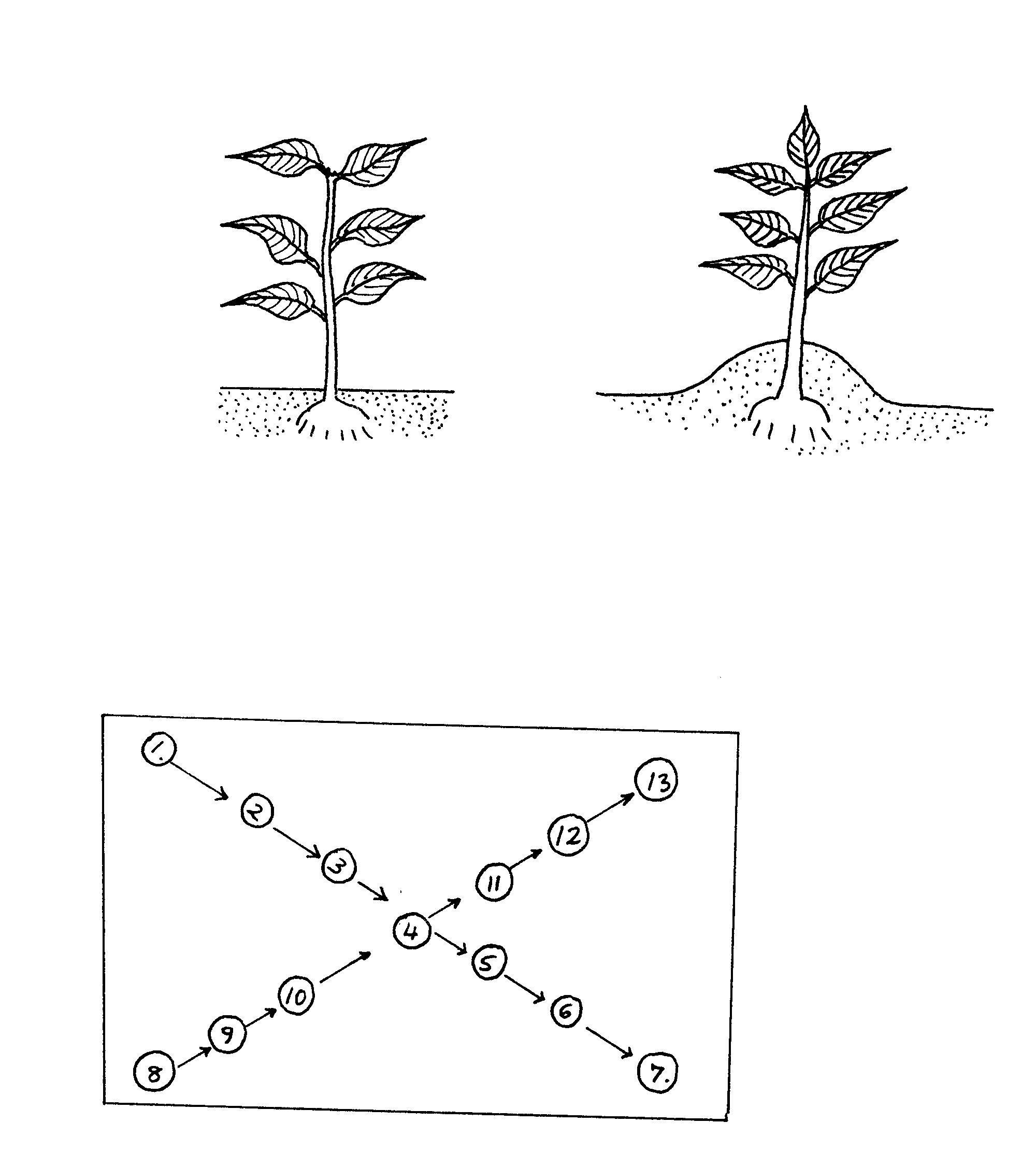
1. Tooth clipping (½ mark)

1. Cutting galvanized iron sheets ( ½ mark)

1. List **four** farming practices that can be carried out to increase the amount of light harnessed by crops.  (2 marks)

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1. State **two** ways of preparing planting materials before planting (1 mark) …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….
2. The diagrams below show a practice carried out on various crops on the farm. Study them carefully and answer the questions that follow.



B

A

Before After

a) Identify the farm practice represented by B. (1 mark )

……………………………………………………………………………………………………………………

b) State one the importance of the above practice in the following crops. (3 marks)

(i) Maize

…………………………………………………………………………………………………………………

(ii) Irish Potatoes

…………………………………………………………………………………………………………………

(iii) Tobacco

……………………………………………………………………………………………………..................

c) At what stage of growth should the above practice be carried out in maize. (1 mark)

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1. Explain **three** ways government policy contributes to Agriculture. (3 marks)

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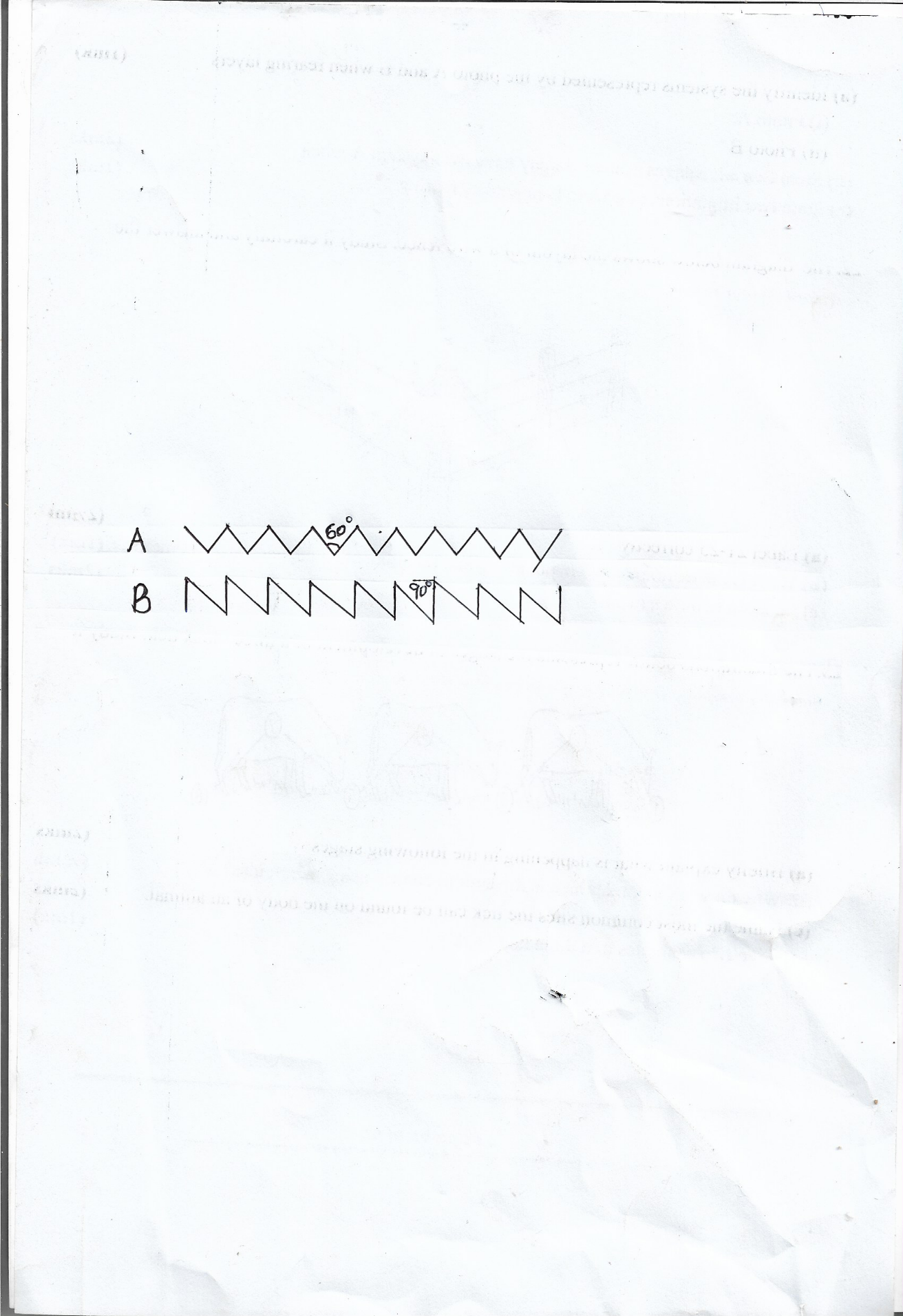
1. Give **one** reason why fresian’s milk is more whitish while jersey milk is yellowish. (1 mark)

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1. Differentiate between **drift** and **pen lambing.** (1 mark)

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1. The diagram labelled A and B below show the teeth arrangements in workshop tools.



(a) Identify the tools represented by the teeth arrangement. A and B. (2marks)

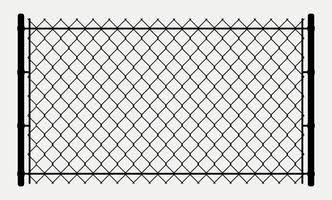
A - ……………………………………………………………………………………………………………

B - ……………………………………………………………………………………………………………

b) State **one** functional difference between tools represented by the teeth arrangement A and B. (1 marks)

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1. Study the illustration of fences below and answer the questions that follow

X Y

(a) Name the type of fences illustrated above (2 marks)

X – ……………………………………………………………………………………………………………

Y- ……………………………………………………………………………………………………………..………

b) Name the correct tool used in maintenance of the fence Y. (1mark)

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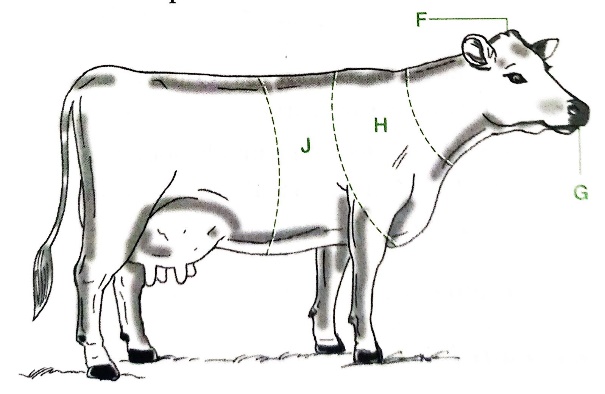
c) State **two** advantages that fence Y may have over fence X. (2mark)

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1. State **four** steps followed in land adjudication. (2 marks)

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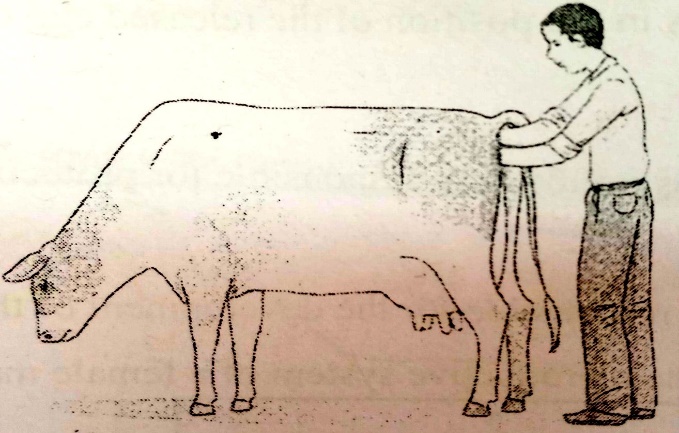
1. Below is a diagram of a cow. Study it carefully and answer the questions that follow.



1. Name the parts of the animal labelled F, G, H and J. (2 marks)

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1. On the same illustration, mark with letters indicated in brackets, where; (4 marks)
2. Branding should be done (B)
3. Vaccination should be carried out (V)
4. Body temperature should be taken (T)
5. Mastitis infection may occur (M)
6. The diagram below illustrates a special state of the reproductive cycle of the cow.

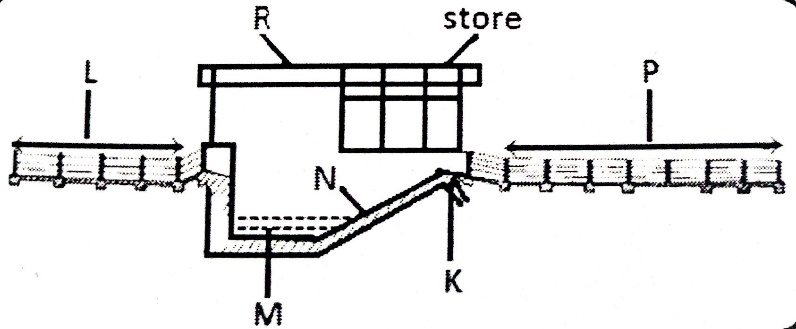


1. Name the process demonstrated above in this diagram. (1 mark)

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1. Predict the part or instrument in the digestive and reproductive systems respectively touched or held by the;
2. Right hand………………………………………………………… (1 mark)
3. Left hand…………………………………………………………… (1 mark)

1. The diagram below illustrates a livestock handling structure.



1. Identify the structure. (1 mark)
2. Name parts K, M, N and P. (2 marks)

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1. Describe concession as a land tenure system. (1 mark)

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1. State three methods of chemical treatment of timber. (3 marks)

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