**Name: ……………………………………………... Index no ……..…......................................**

**School: …………………………………………….. Candidate’s sign …………………….......**

**Class………………………………………….…..… Adm No…………………...……………...**

**AGRICULTURE 443/2**

**JUNE 2024**

**TIME: 2 HOURS**

**FORM FOUR KASSU JET MOCK 2024**

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

**Agriculture**

**Paper 2**

**INSTRUCTIONS TO CANDIDATES:**

* *Write your name and index number in the spaces provided above.*
* *Sign and write the date of examination in the spaces provided above.*
* *This paper consists of three sections A, B and C.*
* *Answer* ***all*** *the questions in section A and B.*
* *Answer any* ***two*** *questions in section C.*
* *All answers should be written in the spaces provided.*
* *This paper consists of 12 printed pages.*
* *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
* *Candidates should answer all the questions in English.*

***For Examiner’s Use Only:***

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| A | 1-19 | 30 |  |
| B | 20-23 | 20 |  |
| C |  | 20 |  |
|  | 20 |  |
|  | **TOTAL SCORE** | **90** |  |

**SECTION A (30 MARKS)**

1. Give the appropriate term used to refer to each of the following.
2. Young one of a rabbit.

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1. Mature female cattle.

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1. State **three** factors that determine the effectiveness of an acaricide.

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1. Outline **four** factors considered when formulating a livestock ration. (2mks)

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1. List **three** methods used in selection of breeding stock in livestock production.

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1. State how each of the following practices help to control livestock diseases.
2. Quarantine

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1. Prophylactic measures.

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1. State **four** reasons for seasoning timber. (2mks)

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1. Give **two** processes carried out by a combine harvester when harvesting wheat. (1mk)

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1. State **two** functions of lubrication system in a tractor. (1mk)

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1. State **four** factors that stimulate milk let-down in a lactating cow. (2mks)

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1. Give **two** reasons for using litter in a poultry house. (1mk)

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1. Give **four** conditions that reduce the quality of eggs for hatching. (2mks)

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1. State **four** ways of restraining cattle during routine management. (2mks)

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1. Give the use of each of the following workshop tools.
2. Cold chisel.

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1. Rip saw.

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1. Give **four** reasons why colostrum is important in calf feeding. (2mks)

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1. State **four** harmful effects of lice in pigs. (2mks)

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1. Give **four** reasons for swarming of bees. (2mks)

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1. State **four** factors that lead to an increase in the respiratory rate of livestock. (2mks)

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1. Outline **four** signs of heat in rabbits. (2mks)

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1. Name **two** nutritional diseases in cattle. (1mk)

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**SECTION B (20 MARKS)**

1. The photograph below represents an external parasite of livestock. Study it carefully and answer the questions that follow.



1. Identify the parasite. (1mk)

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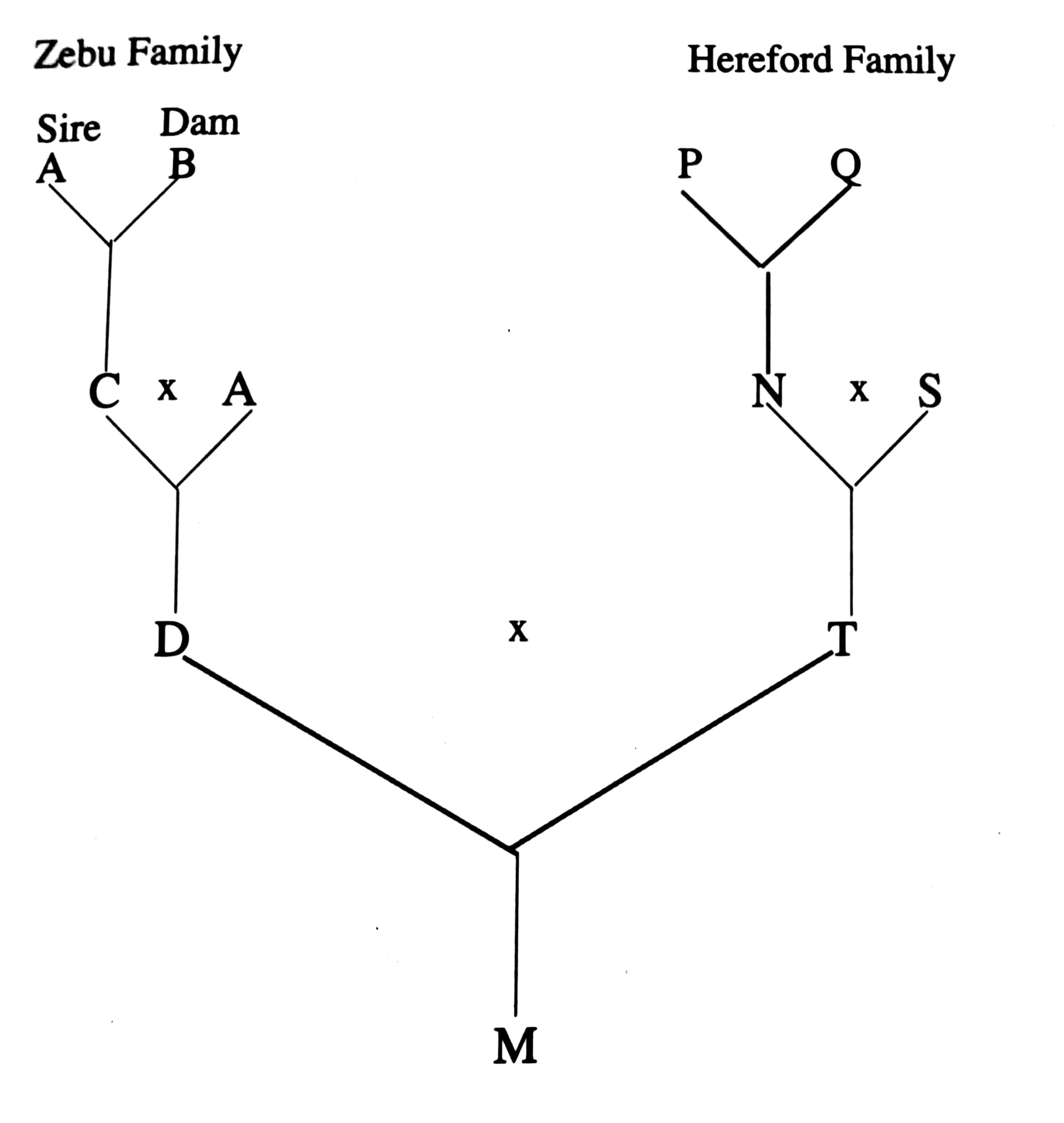
1. What is the economic importance of the parasite to a livestock farmer? (1mk)

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1. State **three** non-chemical methods of controlling the above parasite. (3mks)

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1. The illustration below shows two different livestock families. Use it to answer the questions that follow.



1. Identify the breeding system between
2. C and A (1mk)

………………………………………………………………………………………

1. D and T (1mk)

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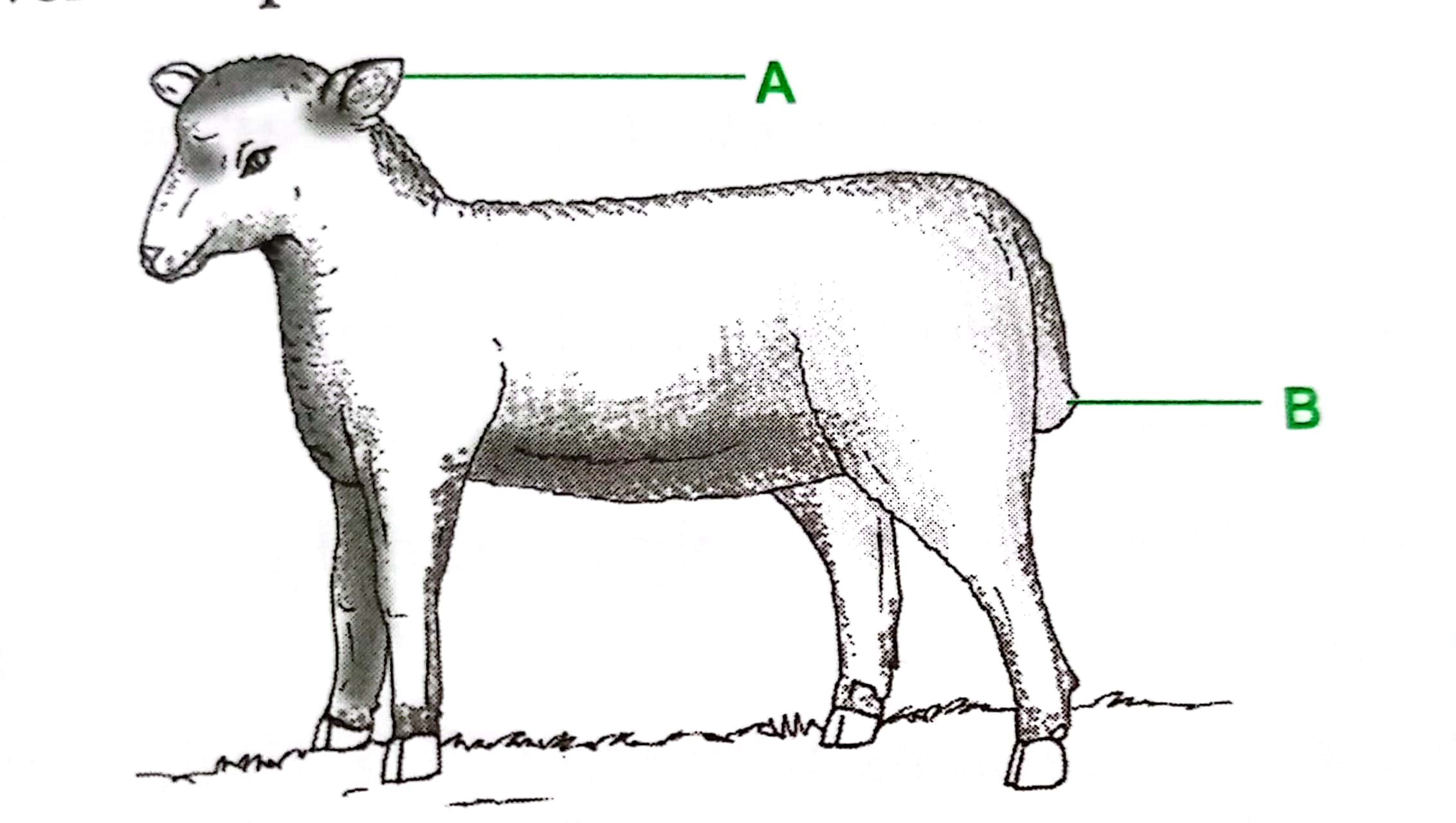
1. State **two** advantages of the breeding system identified in a) ii) above (2mks)

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1. What name is given to offspring M. (1mk)

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



1. Name the management practice carried out in the part labelled B if the sheep is an ewe.

(1mk)

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1. Name one tool in each case that can be used to carry out operations on the parts labelled A and B. (2mks)

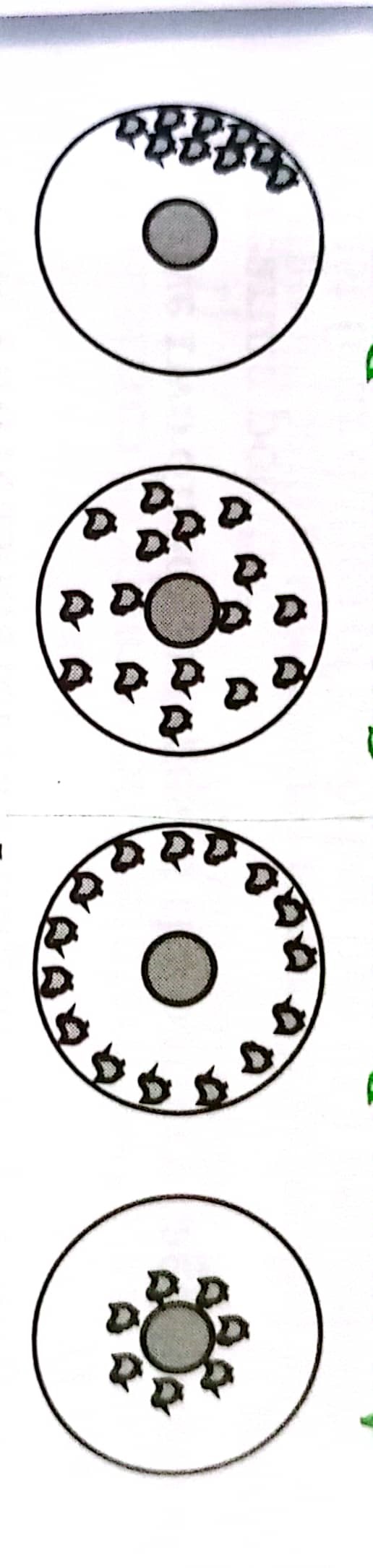
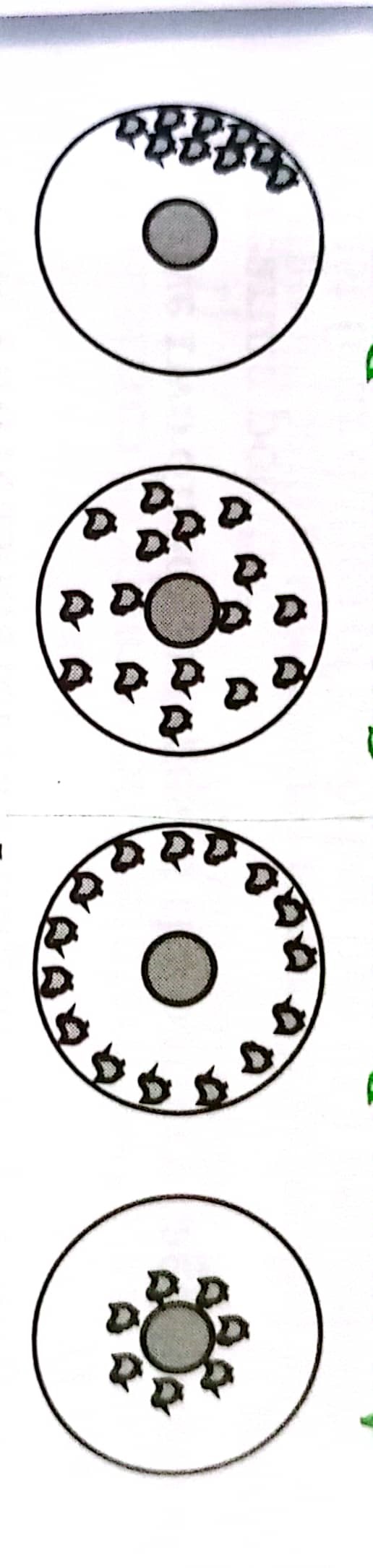
A……………………………………………………………………………………………

B………………………………………………………………………………………….....

1. What is raddling as used in the management of sheep. (1mk)

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1. The following illustration show the behavior of chicks at different temperatures in a brooder

C D E

1. Explain the temperature conditions in each of the four diagrams C, D, E (3mks)

C…………………………………………………………………………………………….

D……………………………………………………………………………………………

E……………………………………………………………………………………………

1. Draw a diagram to show the behavior of the chicks if the temperature in the brooder is the right one. (1mk)
2. Explain why the brooder guard is rounded. (1mk)

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**SECTION C (40 MARKS)**

1. a) Discuss foot and mouth disease under the following sub headings:
2. Causal organism (1mk)
3. Livestock species attacked (2mks)
4. Symptoms of attack. (4mks)
5. Control measures. (3mks)

b) Explain **five** factors that affect digestibility of food in livestock. (5mks)

c) State **five** advantages of a four stroke cycle engine. (5mks)

1. a) Explain the procedure of establishing a fish pond. (5mks)

b) Outline **five** differences between exotic cattle breeds and indigenous cattle breeds. (5mks)

c) State the features of an ideal calf pen. (5mks)

d) Outline **five** symptoms of round worm infestation in cattle. (5mks)

1. a) Describe the preparation and management of a brooder before and after the arrival of day old chicks. (5mks)

b) Describe the uses of various equipment that are used in honey harvesting. (5mks)

c) Give **five** advantages of farm mechanization. (5mks)

d) Outline **five** factors considered when selecting construction materials. (5mks)

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