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

**Date: ……………………………………………………………**

**AGRICULTURE**

**PAPER 2**

**443/2**

**TIME: 2 HOURS**

**MASTERCLASS INNER CIRCLE**

**CHAMPIONS LEADERSHIP INSTITUTE**

**MINI MOCK**

**AGRICULTURE**

**PAPER 2**

**443/2**

**TIME: 2 HOURS**

**INSTRUCTIONS TO CANDIDATES:**

* *Write your* ***name*** *and* ***index number*** *in the spaces provided.*
* *Sign and write the date in the spaces provided above*
* *This paper consists of three section* ***A, B*** *and* ***C***
* *Answer* ***all*** *the questions in section* ***A*** *and* ***B***
* *Answer any* ***two*** *questions in section* ***C.***
* *Answers should be written in the spaces provided in this booklet.*

***For Examiner’s Use Only:***

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

**SECTION A (30 MARKS)**

***Answer all questions in this section.***

1. Study the table below and fill in the missing words.

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **Sheep** | **Pigs** | **Poultry** |
| **Young from birth/hatching to weaning** |  |  |  |
| **Young female before first parturition** |  |  |  |
| **Mature female for breeding** |  |  | **Hen** |

(4 marks)

1. State **three** types of calf pens. (1½ marks)

1. Give **three** effects of internal parasites that are harmful to livestock. (1½ marks)

1. State **four** reasons for steaming up in dairy cattle management. (2 marks)

1. State **two** functions of the crop in poultry digestive system. (1 mark)

1. State **one** function of each of the following.
   1. Shovel (1 mark)

* 1. Strip cup (1 mark)

1. State **four** construction features necessary for a fish pond. (2 marks)

1. Mention **four** causes of stress to a flock of layers. (2 marks)

1. State **four** methods of controlling roundworm. (Ascaris sp) in livestock. (2 marks)

1. List **four** categories of livestock diseases. (2 marks)

1. State **four** strokes in a four stroke cycle engine. (2 marks)

1. Name **two** nutritional diseases of cattle. (1 mark)

1. Name **two** practices that are carried out when preparing ewe for mating. (1 mark)

1. Name **four** parts a farm building that can be reinforced using concrete. (2 marks)

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

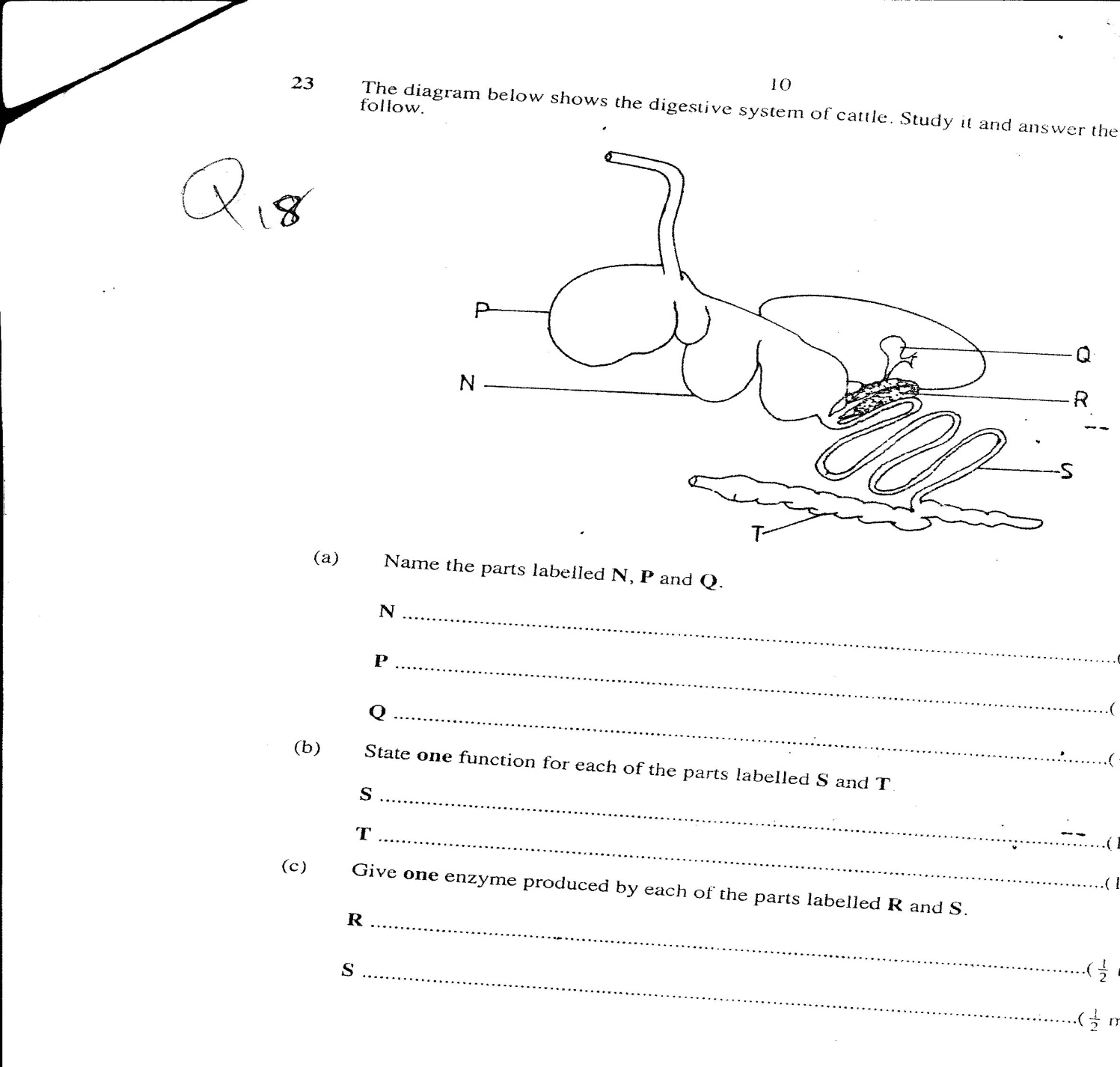
1. State **two** factors that limit external parasite control in Kenya. (1 mark)

1. Name any **two** products obtained from dual purpose sheep. (1 mark)

**SECTION B (20 MARKS)**

***Answer all questions in section.***

1. The diagram below shows the digestive system of a cattle. Study it and answer the questions that follow.



(a) Name the parts labeled N, P, Q and R. (2 marks)

N

P

Q

R

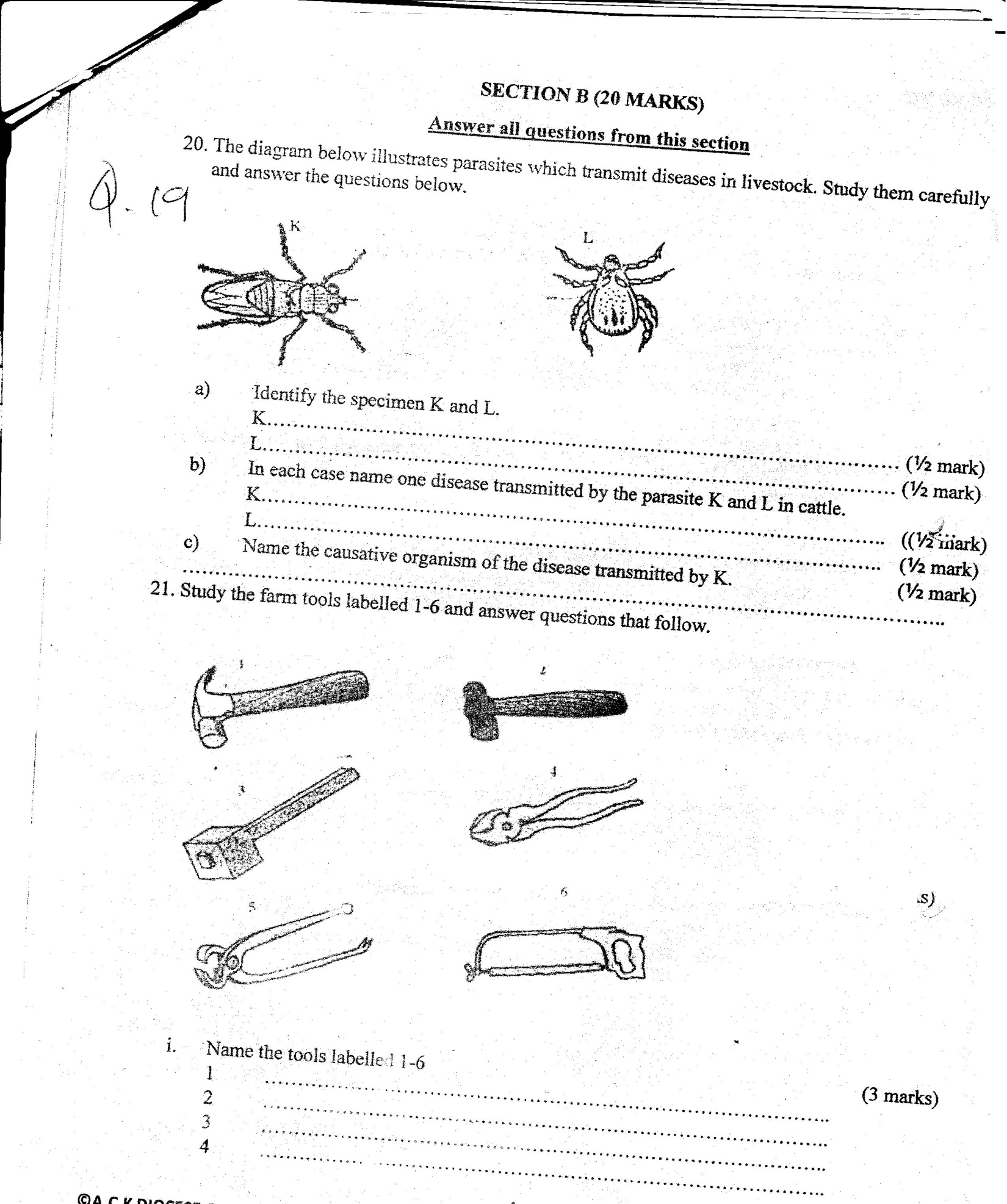
(b) State **one** function for each of the parts labelled S and T. (1 mark)

S

T

(c) Give **one** enzyme produced by each of the parts labeled R and S. (1 mark)

1. The diagram below illustrates parasites which transmit diseases in livestock study them carefully and answer the questions below.



(a) Identify the parasites K and L.

K,…………………………………………………………………………………………(½ marks)

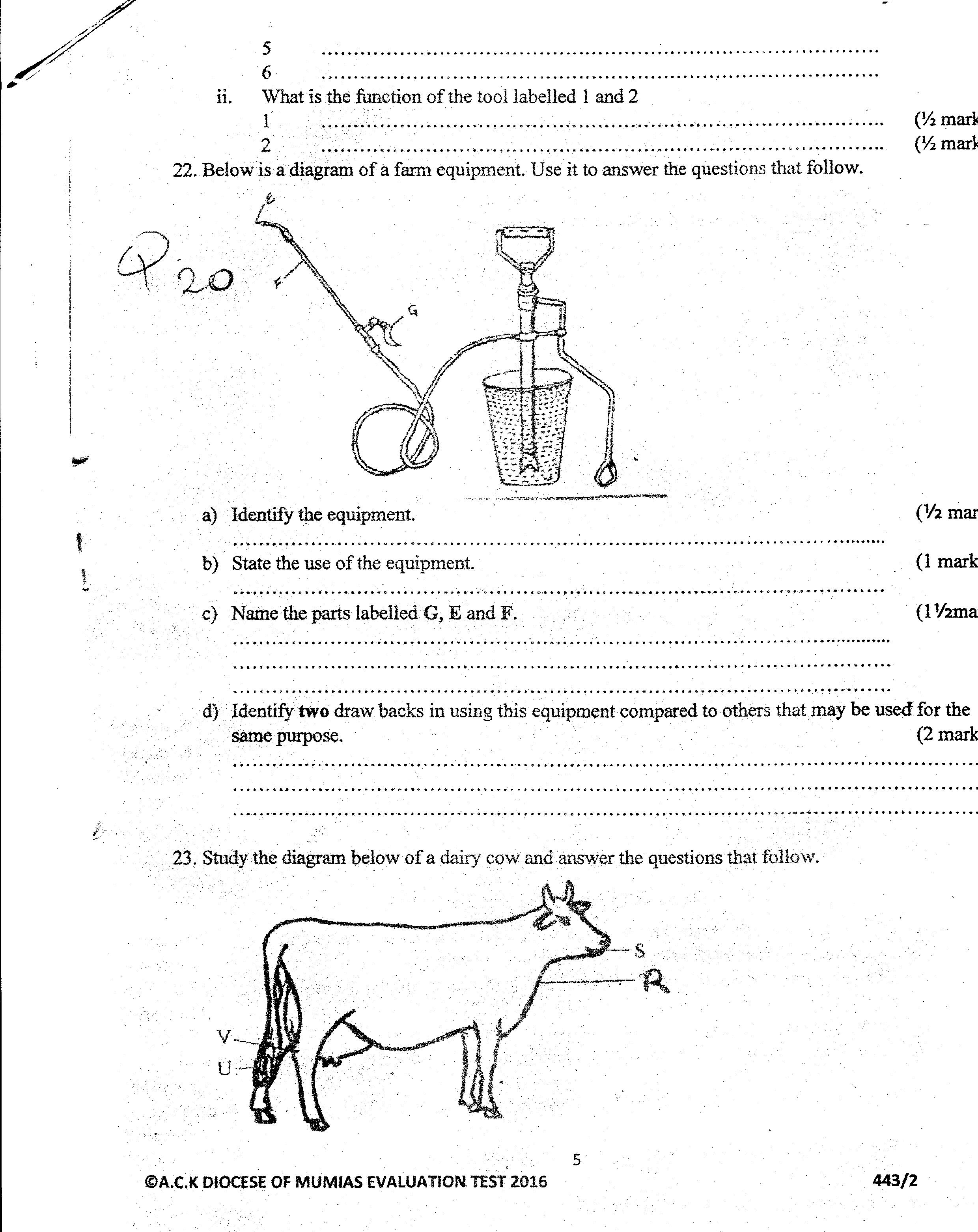
L…………………………………………………………………………………………..(½ marks)

(b) In each case name one disease transmitted by the parasite K and L in cattle.

K………………………………………………………………………………………..(½ marks)

L………………………………………………………………………………………..(½ marks)

1. The diagram indicates a farm equipment use it to answer the questions that follow.



(a) Identify the equipment. (½ marks)

(b) State the use of the equipment. (½ marks)

(c) Name the parts labelled G, E and F. (1½ marks)

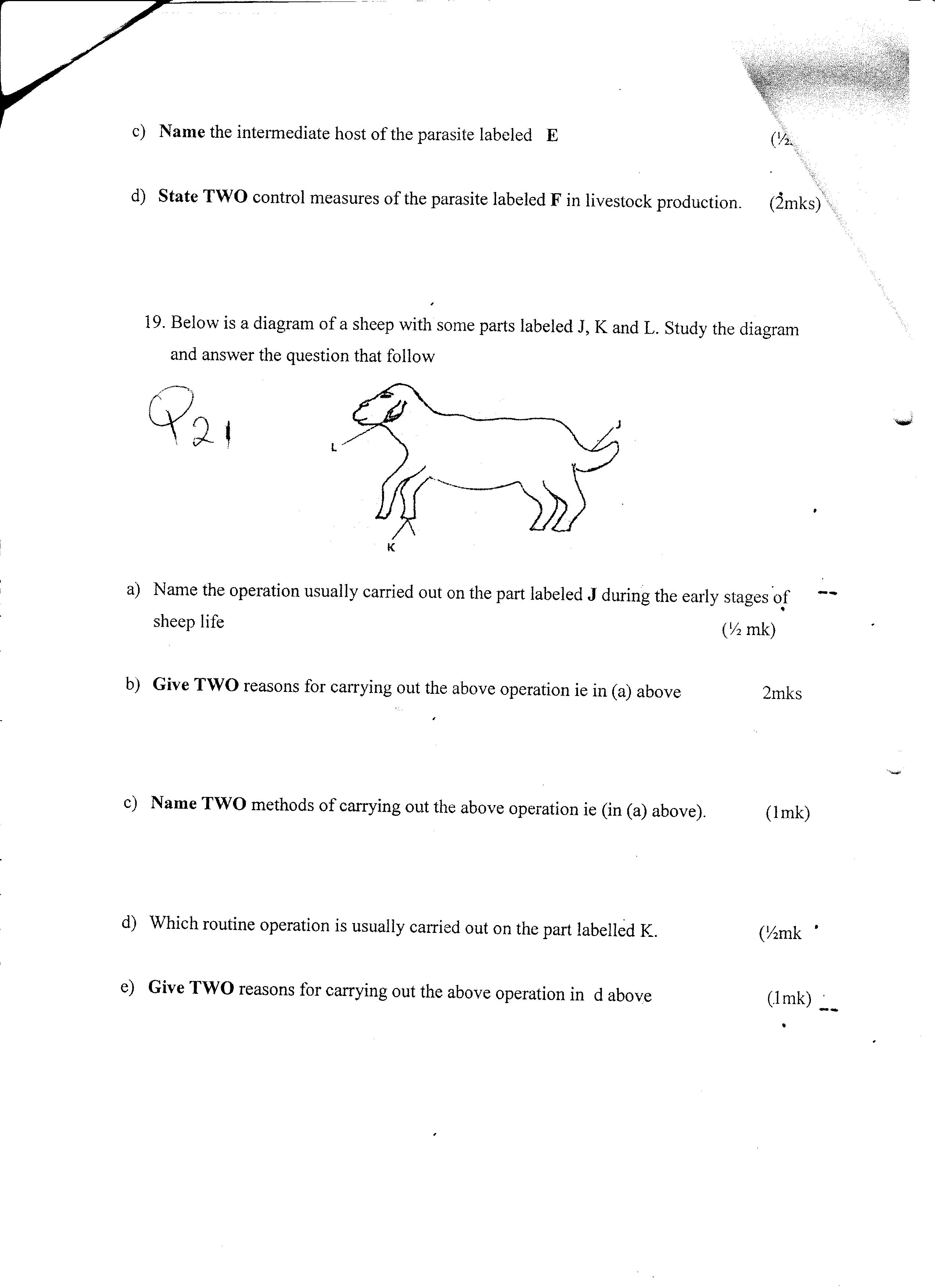
G

E

F

(d) Identify **two** drawbacks in using this equipment compared to others that may be used for the same purpose. (2 marks)

1. The diagram below shows a sheep with some parts labelled J, K and L. Study the diagram and answer the question that follow.



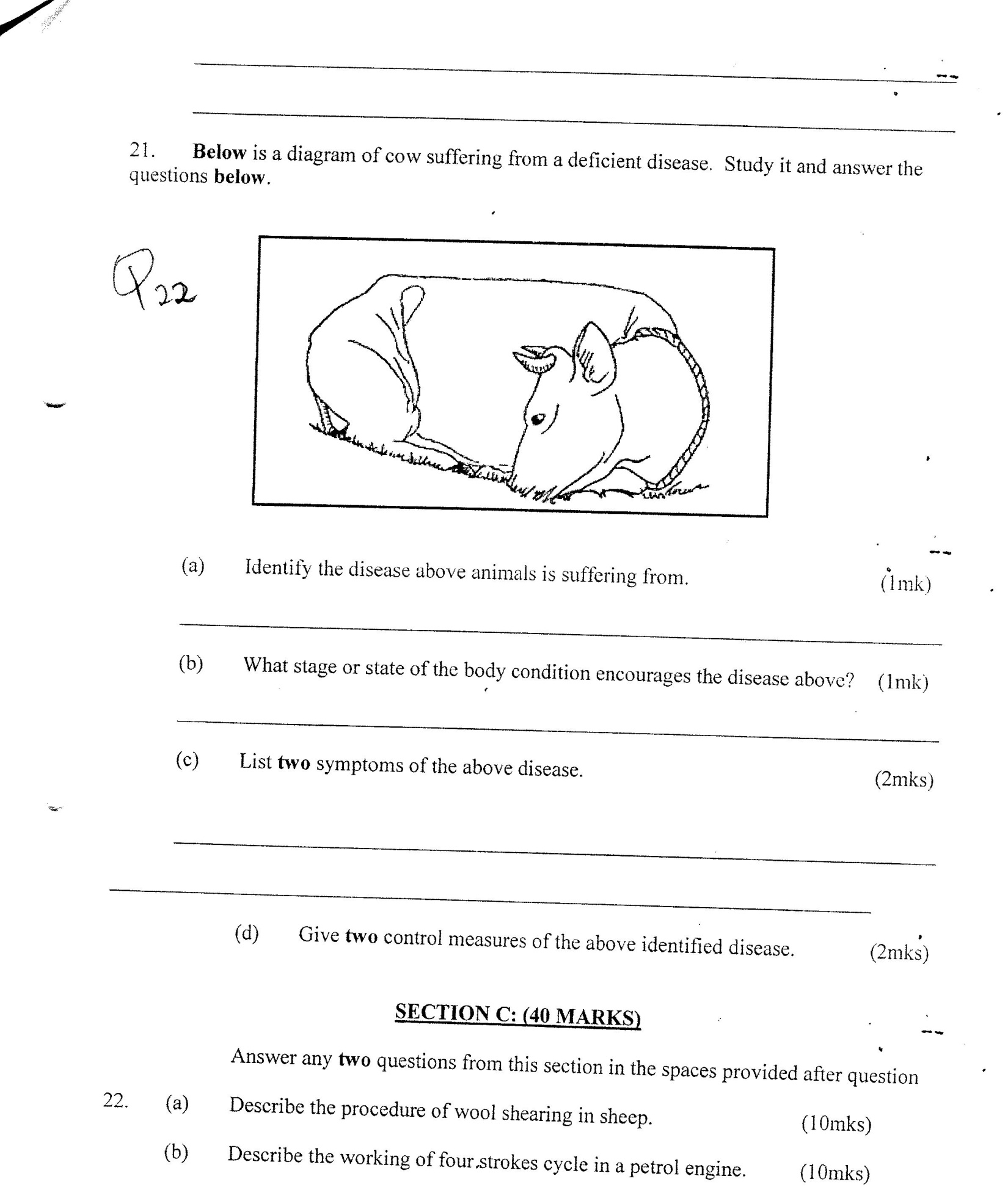
(a) Name the operation usually carried out on the part labeled J during the early stages of sheep life. (½ mark)

(b) Give **two** reasons for carrying out the above operation in (a) above. (1 mark)

(c) Name **two** methods of carrying out the above operation. (1 mark)

(d) Which routine operation is usually carried out on the part labelled K. (½ mark)

1. Below is a diagram of a cow suffering from a deficient disease. Study it and answer the questions below.



(a) Identify the disease the above animal is suffering from. (1 mark)

(b) List **two** symptoms of the above disease. (2 marks)

(c) Give **two** control measures of the above identified disease. (2 marks)

**SECTION C (40 MARKS)**

***Answer any two questions from this section in the spaces provided.***

1. Give ten routine practices and explain an appropriate method of handling livestock during the routine practice. (20 marks)
2. (a) Describe the digestion of grass in the rumen of a ruminant. (6 marks)

(b) Describe the life cycle of a three host – tick. (7 marks)

(c) Write short notes on Friesian breed of dairy cattle under the following sub headings. (7 marks)

(i) Origin

(ii) Characteristics

1. Explain the predisposing factors of mastitis disease in cattle. (10 marks)

(b) Outline the methods used to control internal parasites in livestock. (7 marks)

(c) State three ways by which a famer can identify an animal suffering from worm infestation.(3 marks)