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**443/2**

**AGRICULTURE**

**PAPER 2**

**JULY / AUGUST 2013**

**TIME: 2 HOURS**

**KATHONZWENI DISTRICT FORM IV EVALUATION TEST 2013**

**Kenya Certificate of Secondary Education**

**AGRICULTURE**

**PAPER 2**

**2 HOURS**

**INSTRUCTIONS**

1. Write your name and index number in the spaces provided above.
2. Sign and write the date of examination in the spaces provided above.
3. This paper consists of three sections: A, B and C.
4. Answer ALL the questions in sections A and B.
5. Answer any TWO questions from section C.
6. Answer should be written in the spaces provided.

**FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATE’S SCORE** |
| A | 1 – 17 | 30 |  |
| B | 18 – 21 | 20 |  |
| C |  | 20 |  |
| 20 |  |
| **TOTAL SCORE** | | **90** |  |

**SECTION A ( 30 MARKS )**

***Answer ALL the questions in this section in the spaces provided.***

1. Name two viral diseases that affect each of the following livestock animals .

(a) Cattle (1 mark)

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(b) Poultry (1 mark)

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2. State four advantages of artificial calf rearing in dairy cattle management. (2 marks )

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3. Why is raddling essential in sheep management. (1 mark )

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4. Give the names of the following classes of livestock. (2 marks )

(a) Young one of pig from birth to weaning.

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(b) Mature male of cattle for breeding.

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(c ) Young female chicken before laying.

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(d) Young female cattle before first parturition.

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5. List four types of fences. (2 marks )

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6. What is meant by the following terms as used in livestock health. (2 marks )

(a) Incubation period.

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(b) Predisposing factor.

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7. List two symptoms of contagious abortion. (1 mark)

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8. List four materials that can be used in construction of a cattle dip. (2 marks )

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9. State two control measures for fowl pox disease in poultry. (1 mark)

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10. State the functions of each of the following. (2 marks )

(a) Shovel.

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(b) Strip cup.

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(c ) Garden trowel.

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(d) Lead stick.

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11. Distinguish between the following practices as used in livestock production.

(a) Cruching and ringing in sheep management. (2 marks )

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(b) Cropping and harvesting in fish farming. (2 marks )

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12. State four advantages of using animals instead of tractors as a source of power in the farm. (2 marks)

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13. Name one livestock disease that is transmitted by each of the following parasites. (1 ½ marks )

(i) Blue tick\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(ii) Brown ear tick \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(iii) Tsetse fly \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. State three maintenance practices for a tractor battery. (1½ marks )

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15. State four signs that indicate that a doe is about to kindle. (2 marks )

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16. Name two bloodless methods of castration in lambs. (1 mark)

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17. Give two ways in which proper nutrition helps to control livestock diseases. (1 mark)

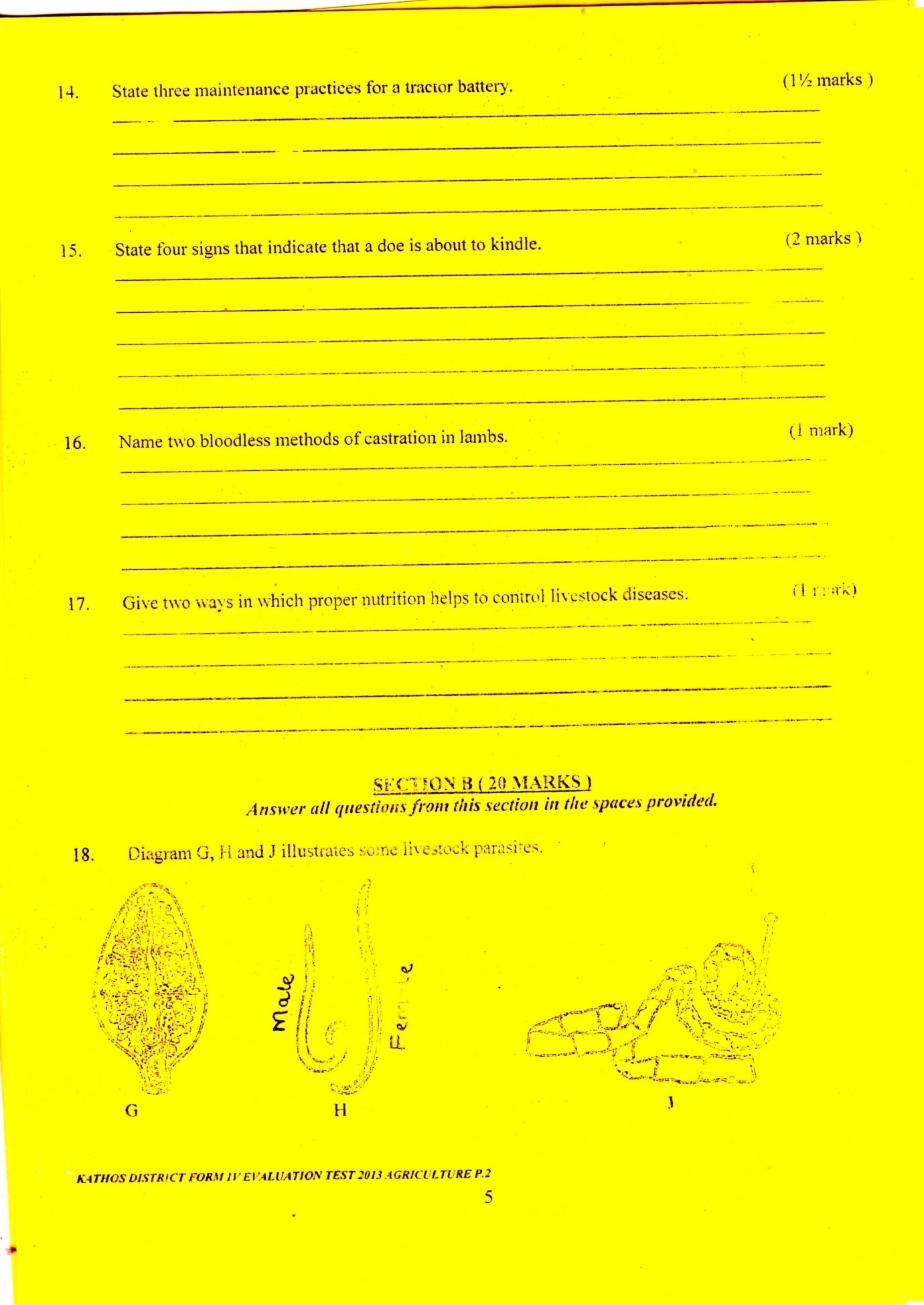
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**SECTION B ( 20 MARKS )**

***Answer all questions from this section in the spaces provided.***

18. Diagram G, H and J illustrates some livestock parasites.



(a) Identify parasites G, H and J (1 ½ mks)

G \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

J \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Name the parts of the host body where parasites G and J are found. (1 mark)

G \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

J \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(c ) Name the intermediate hosts of parasites G and H. (1 mark )

G \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(d) Outline three symptoms of attack in livestock by parasite J. (1 ½ marks)

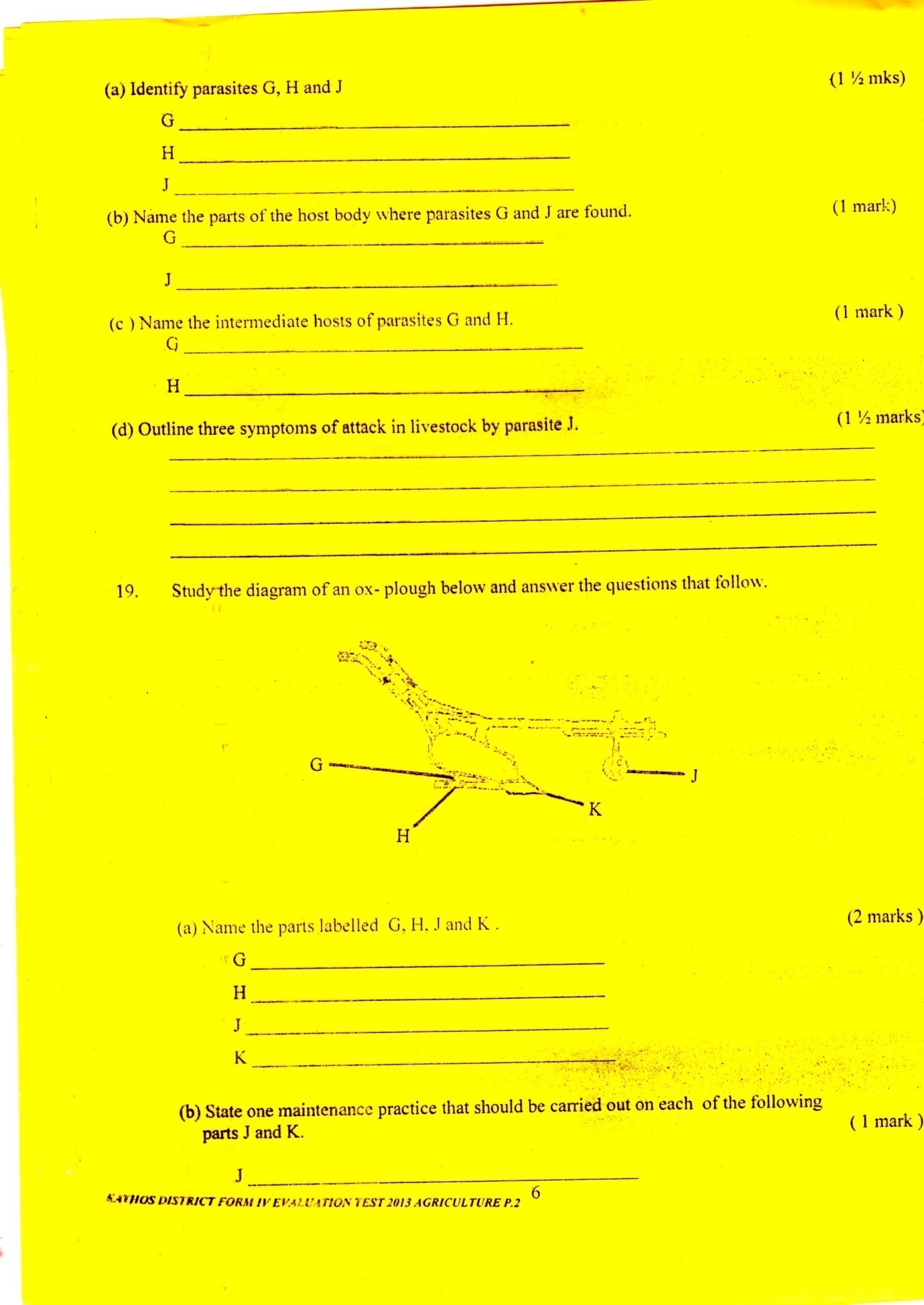
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19. Study the diagram of an ox- plough below and answer the questions that follow.



(a) Name the parts labelled G, H, J and K . (2 marks )

G \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

J \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

(b) State one maintenance practice that should be carried out on each of the following

parts J and K. ( 1 mark )

J \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

(c ) State the function of the parts labeled H and J. (1 mark)

H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

J \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(d) What adjustment should be carried out on implement so as to reduce the depth

of ploughing. ( 1 mark )

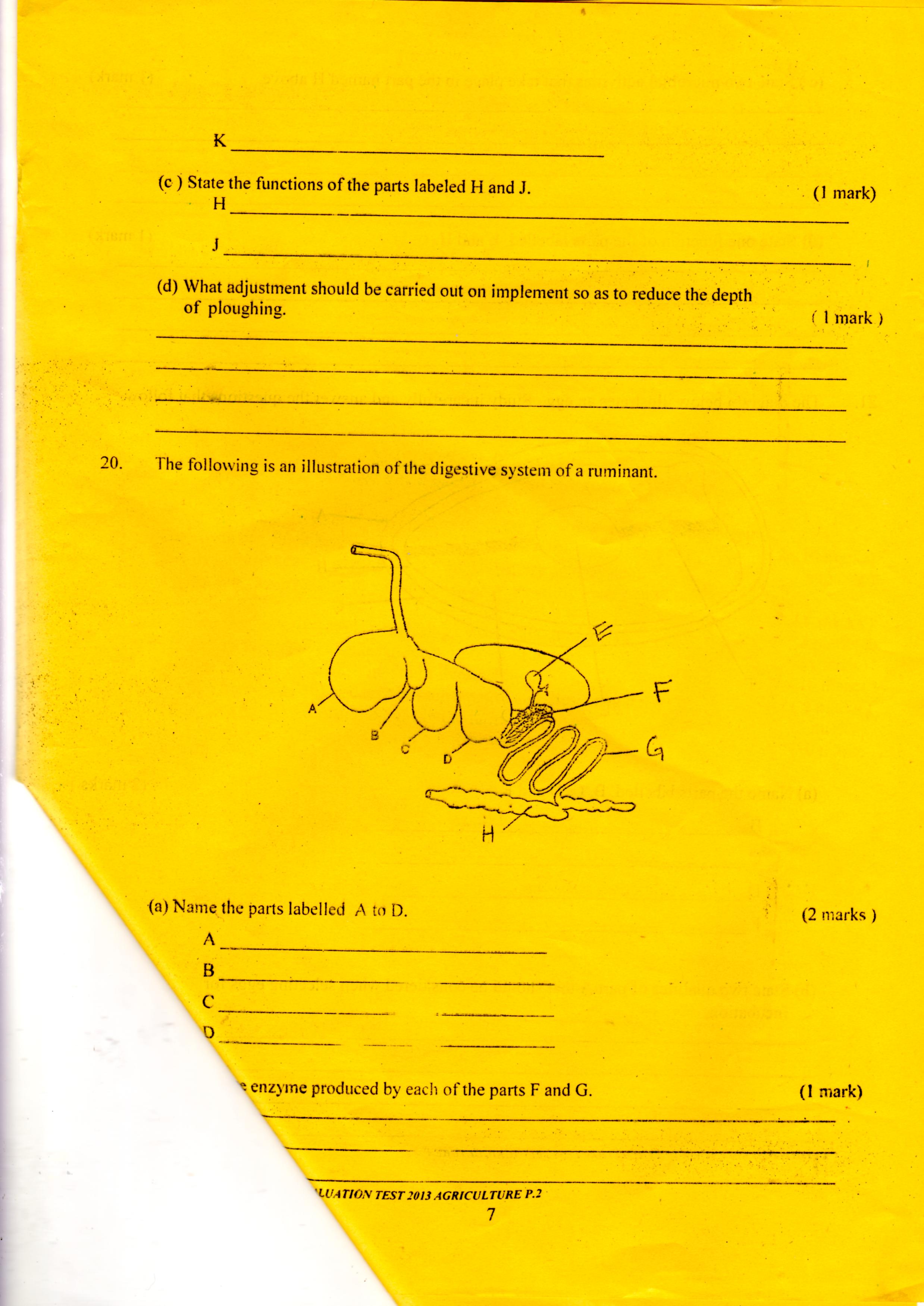
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20. The following is an illustration of the digestive system of a ruminant.



(a) Name the parts labelled A to D. (2 marks )

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Name one enzyme produced by each of the parts F and G. (1 mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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(c ) State two microbial activities that take place in the part named H above. (1 mark)

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(d) State one function of the parts labelled E and H. (1 mark)

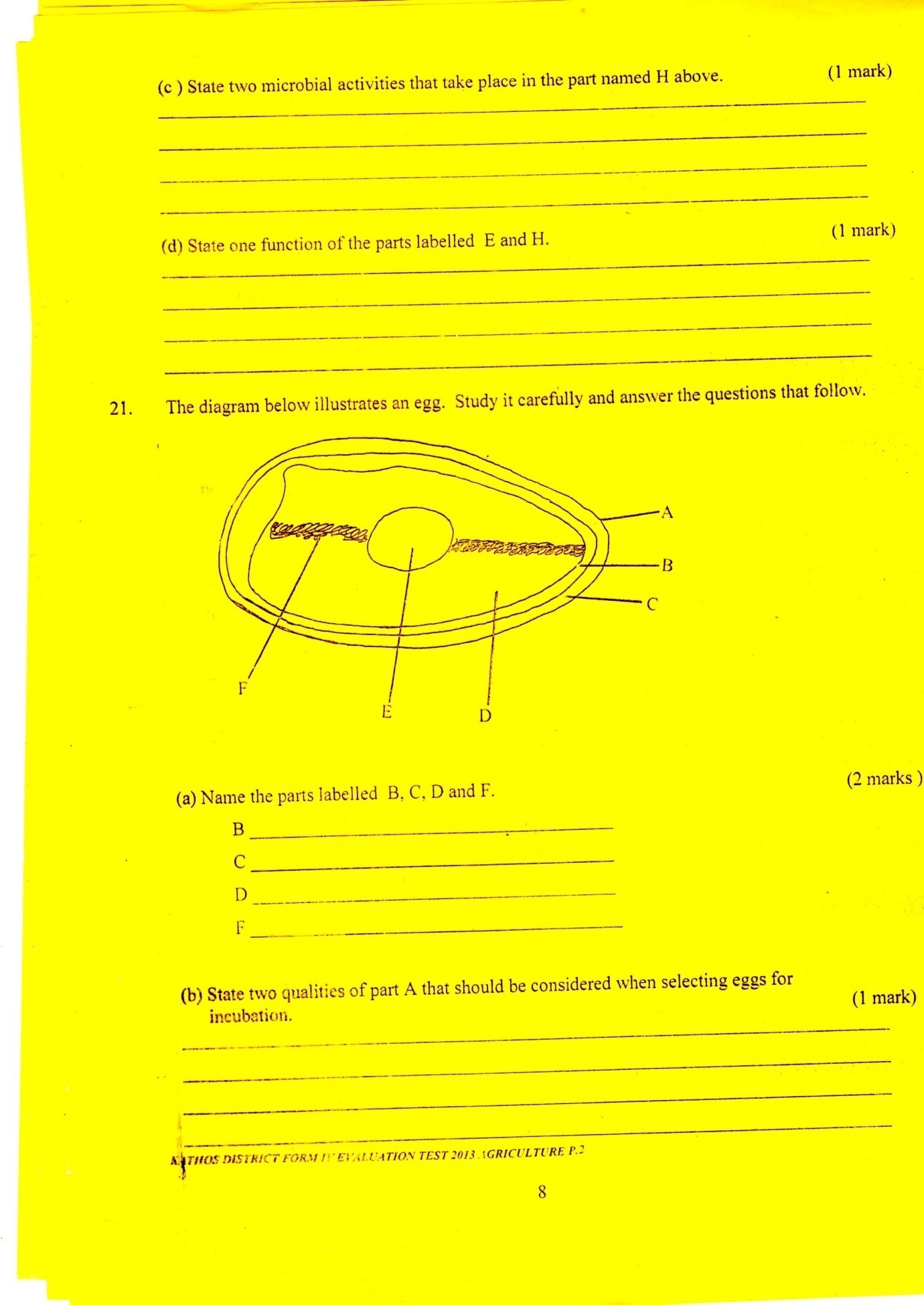
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21. The diagram below illustrates an egg. Study it carefully and answer the questions that follow.



(a) Name the parts labelled B, C, D and F. (2 marks )

B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

F \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) State two qualities of part A that should be considered when selecting eggs for

incubation. (1 mark)

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(c ) State the function of the part labeled E in a fertilized egg. (1 mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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(d) State two conditions necessary for egg incubation. (1 mark)

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**SECTION C ( 40 MARKS )**

***Answer any 2 questions from this section.***

22. (a) State and explain physical characteristics a poultry farmer would use in identifying

poor layers in a flock hens. (10 marks)

(b) State five advantages of rearing birds through battery cage system. ( 5 marks )

(c ) Explain five factors a farmer would consider when siting apiary an to prevent swarming

of bees. ( 5 marks )

23. (a) State five factors to consider in selecting construction materials. (5 marks )

(b) Explain five factors to consider in locating farm structures. (5 marks )

(c ) Describe ten (10) signs of ill health in livestock. (10 marks )

24. (a) Give five functional differences between a petrol and diesel engine. ( 5 marks )

(b) Outline five benefits of using biogas in the farm. (5 marks )

(c ) Describe how the ignition system of a tractor works. (10 marks )