**Name………………………………………………… Index No. …………………….**

**School ………………………………………………...**

**443/1**

**AGRICULTURE**

**PAPER 2**

**THEORY**

**JULY / AUGUST**

**TIME: 2 HOURS**

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

# INSTRUCTIONS TO CANDIDATES

* This paper consists of THREE sections A,B and C.
* Answer ALL questions in section A and B and any two from section C.
* All answers should be written in the spaces provided

**For Examiner’s Use Only**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Questions** | **Maximum** | **Candidate’s Score** |
| A | 1 – 12 | 30 |  |
| B | 13 – 16 | 20 |  |
| C |  | 20 |  |
|  |  | 20 |  |
| **TOTAL** | 90 |  |  |

*This paper consists of 12 printed pages.*

1. Write two physical characteristics of saddle back breed in pigs. (2mks) \*Nym\*

2. State two reasons for flushing in sheep production. (2mks) \*Nym\*

3. State two disadvantages of live fences. (2mks) \*Nym\*

4. Give one reason why concrete floors are recommended for dairy shed. (1mk) \*Nym\*

5. State two reasons for feeding a dairy cow with roughage. (2mks) \*Nym\*

6. Give two causes of egg eating in poultry. (2mks) \*Nym\*

7. What is the importance of feeding poultry on grit. (1mk) \*Nym\*

8. a) Give two predisposing factors of mastitis disease in dairy cattle. (2mks) \*Nym\*

b) Give two symptoms of mastitis in dairy cows. (2mks) \*Nym\*

9. Give two signs of heat in female rabbit. (2mks) \*Nym\*

10. Name the causal organism of brucellosis disease in cattle. (1mk) \*Nym\*

11. Define heterosis in livestock production. (1mk) \*Nym\*

12. Give two reasons for hoof trimming. (2mks) \*Nym\*

13. State four effects of parasites on livestock. (2mks) \*Nym\*

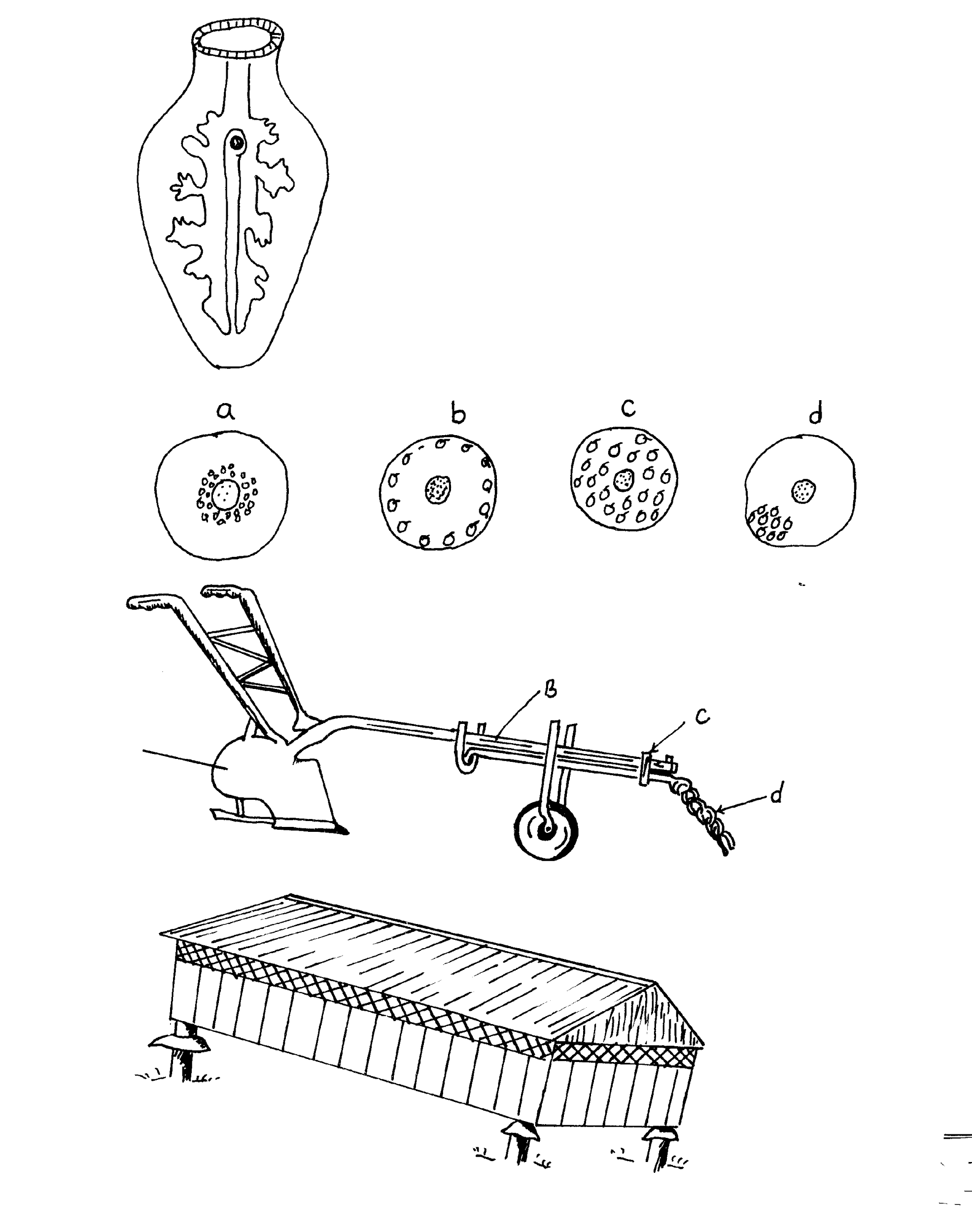
14. State four components system in a tractor. (2mks) \*Nym\*

15. Mention the two methods of attachment in tractor drawn implements. (2mks) \*Nym\*

16. Give four maintenance practice carried on a pruning hook. (2mks) \*Nym\*

**SECTION B ( 20 MARKS)**

17. The diagram below represents a livestock parasite.



a) Identify the parasite. ( ½ mk) \*Nym\*

b) Name one livestock affected by the parasite. ( ½ mk) \*Nym\*

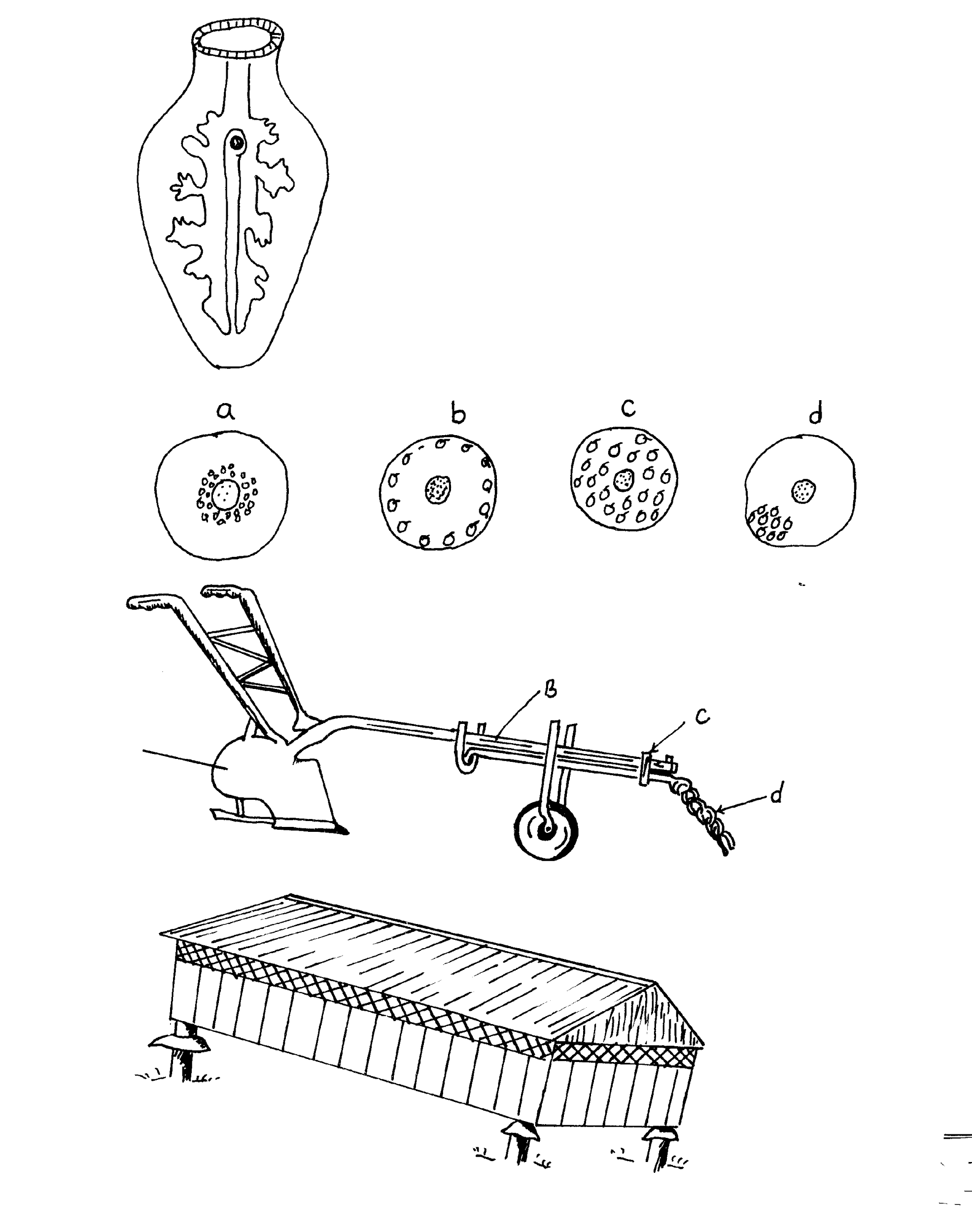
c) Name the organ in the host where the adult stage of this parasite is found.( ½ mk) \*Nym\*

d) Name the intermediate host of the parasite. ( ½ mk) \*Nym\*

e) State two control measure of the parasite. (2mks) \*Nym\*

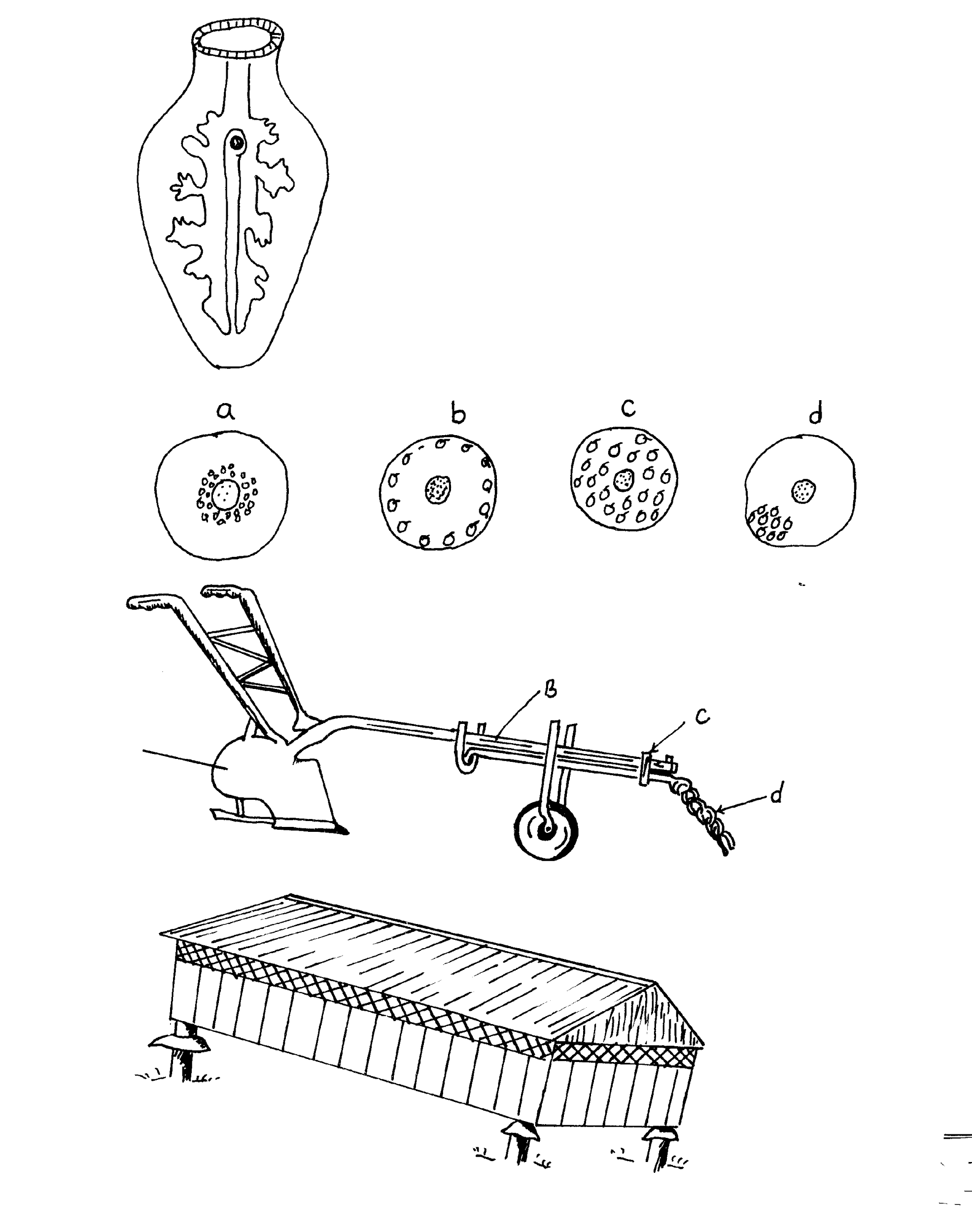
18. Study the diagram shown below and answer the question that follow.

a bc d



Indicate below each diagram the conditions in the brooder. (4mks) \*Nym\*

19. Carefully study the diagram below and answer the questions that follow.



a

(i) Identify the implement (1mk) \*Nym\*

(ii) Identify the parts named a, b, c, d

a ………………………………………………………………. ( ½ mk) \*Nym\*

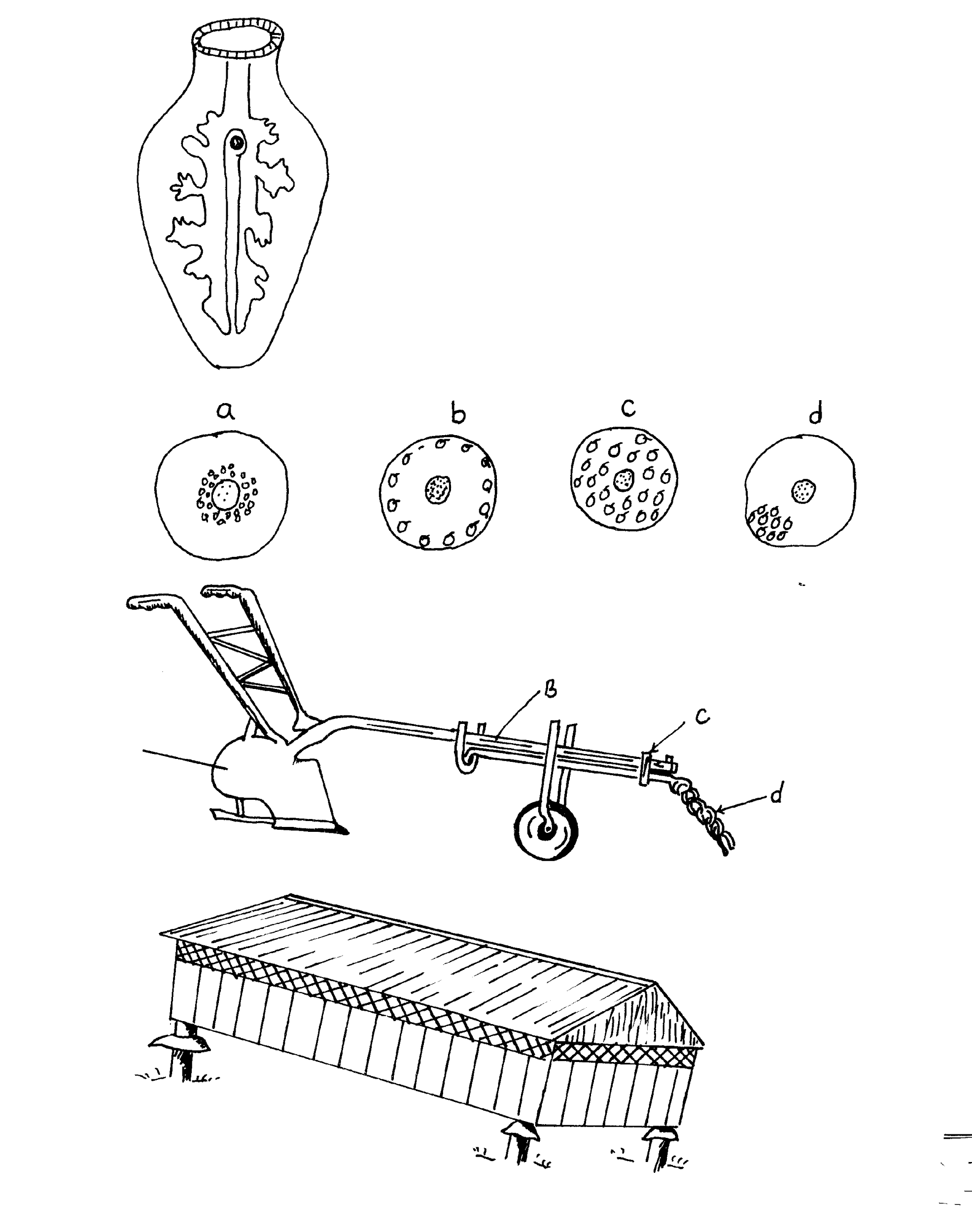
b ……………………………………………………………….. ( ½ mk) \*Nym\*

c ……………………………………………………………….. ( ½ mk) \*Nym\*

d ………………………………………………………………. ( ½ mk) \*Nym\*

(iii) What is the function of the part labelled C. (1mk) \*Nym\*

20. Study the diagram below representing a modern grain store and answer the questions that follow.



S

C.I.S Roofing

a) Name the part marked S on the diagram above. (1mk) \*Nym\*

b) Give three maintenance practices of the structure above. (3mks) \*Nym\*

21. a) Name two pests of bees. (1mk) \*Nym\*

b) Give two uses of hive tool in honey harvesting. (2mks) \*Nym\*

c) Give two reasons why honey harvesting is discouraged at night. (1mk) \*Nym\*

**SECTION C ( 40 MARKS)**

22. Discuss bloat under the following sub-headings.

a) Four causes. (4mks) \*Nym\*

b) Six symptoms (6mks) \*Nym\*

c) Two control measures. (2mks) \*Nym\*

d) Five treatment measure (5mks) \*Nym\*

e) Three species of animals affected by this disease. (3mks) \*Nym\*

23. a)Describe cattle management at dipping. (8mks) \*Nym\*

b) State six maintenance practices of a plunge dip. (8mks) \*Nym\*

c) Name six parts of a zero grazing unit. (6mks) \*Nym\*

24. a) Differentiate between a two stroke and four stroke engine. (4mks) \*Nym\*

b) Using well labelled diagrams explain the process i.e induction, compression, power and exhaust in the four stroke cycle engine. (16mks) \*Nym\*