**NAME ------------------------------------------------------------------ INDEX NO---------------------------------**

**DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CANDIATES SIGNATURE \_\_\_\_\_\_\_\_\_\_\_\_\_**

**443/1**

**AGRICULTURE**

**FORM 2**

**TIME: 2 HRS**

**MWAKICAN JOINT EXAM TEAM (MJET) – TERM 1 2015**

**443/1**

**AGRICULTURE**

**FORM 2**

**TIME: 2 HRS**

1. What is agriculture? (1mk)
2. Give the signs that indicates excess nitrogen in crop. (2mks)
3. List four climatic factors that affects the growth and distribution of crops and livestock. (2mks)
4. State four factors influencing formation of the soil. (2mks)
5. List four soil constituents. (2mks)
6. State two ways in which cultural practices affect agriculture. (2mks)
7. A)List down two tools/equipment used during the handling of cattle during agricultural exhibition.(1mk)
8. Mention two examples of meat goat in Kenya. (1mk)
9. List four characteristics of a dairy cow. (2mks
10. Give four reasons why the burning of buses as a method of land clearing should be discouraged.(2mks)
11. Give a reasons why the following operations are carried out in crop production (3mks)

i)Leveling

ii)Rolling

1. State the main source of water on the farm (11/2mks)
2. Name three types of surface irrigation (11/2 mks)
3. Afarmer was advised to apply of P 2  O5  per hectare of maize at planting time The phosphatic fertilizer available was single superphosphate containing 20% P2 O5

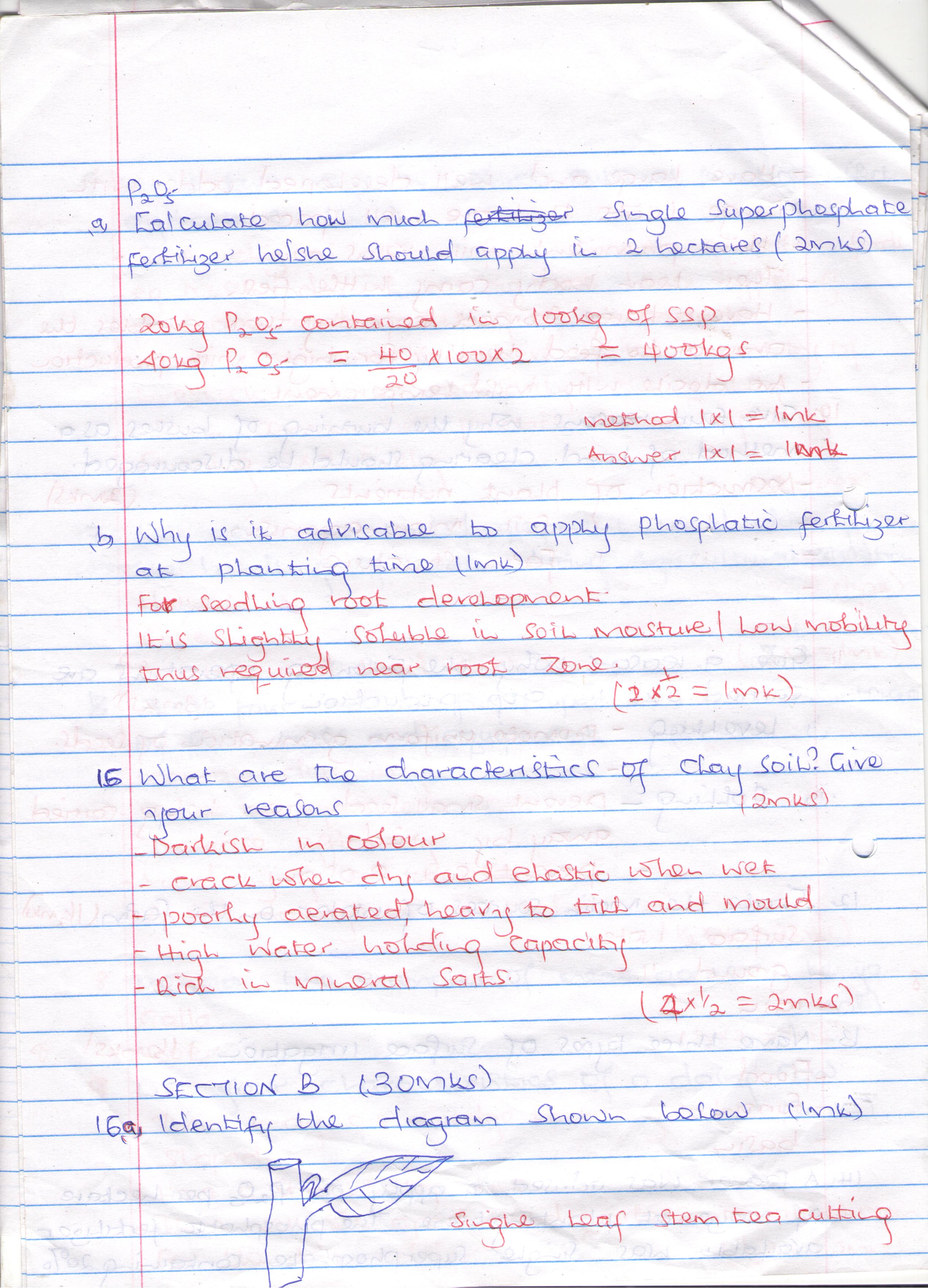
a)Calculate how much single superphosphate fertilizer/she should apply in 2 hectares.

b) Why is it advisable to apply phosphatic fertilizer at planting time. 1mk)

1. What are the characteristics of clay soil? Give your reasons. (2mks)

**SECTION B( 30MKS)**

1. Identify the diagram shown below (1mk)

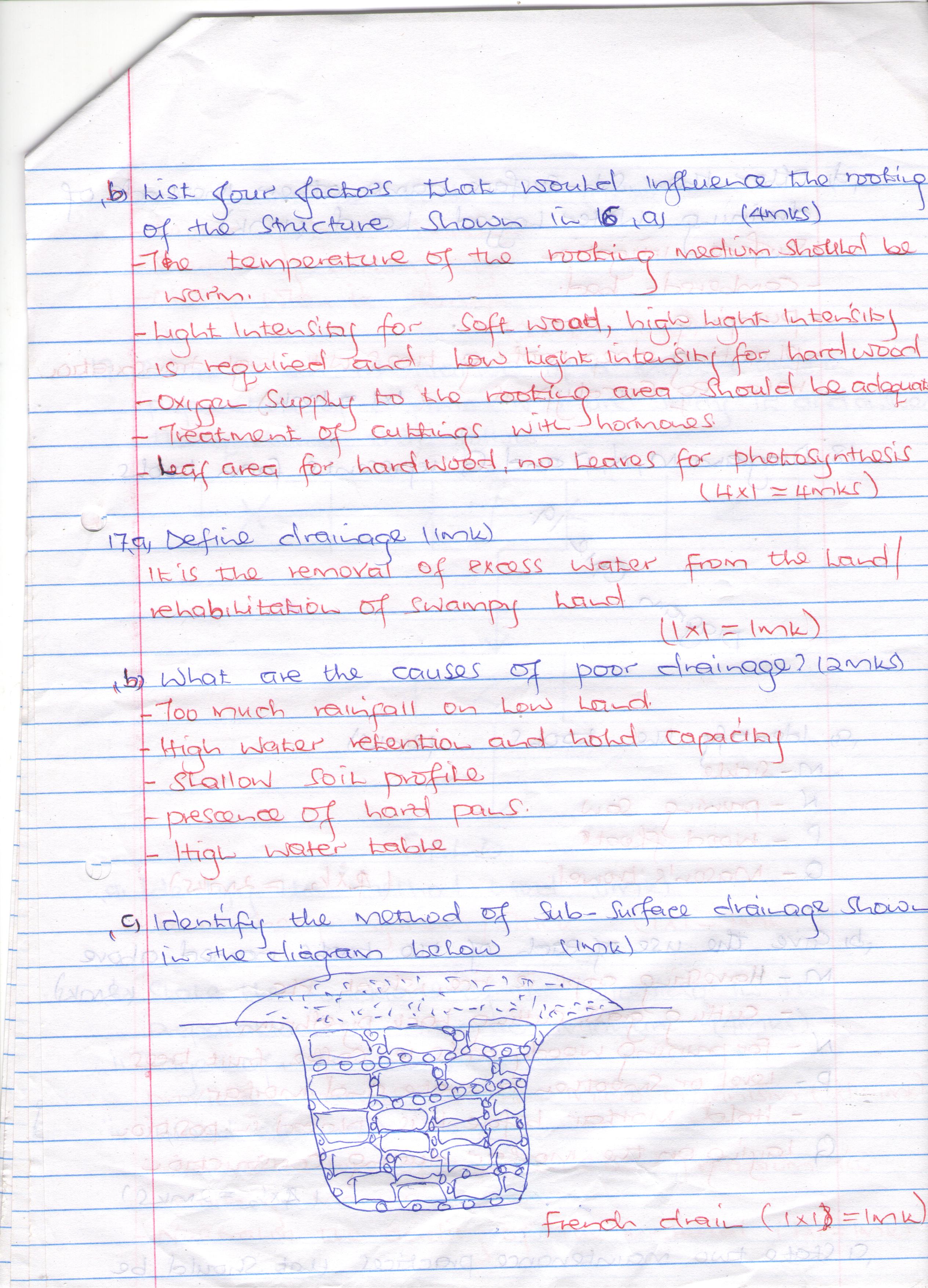


b)List four factors that would influence the rooting of structure shown in 6a (4mks)

1. Define drainage. (1mk)

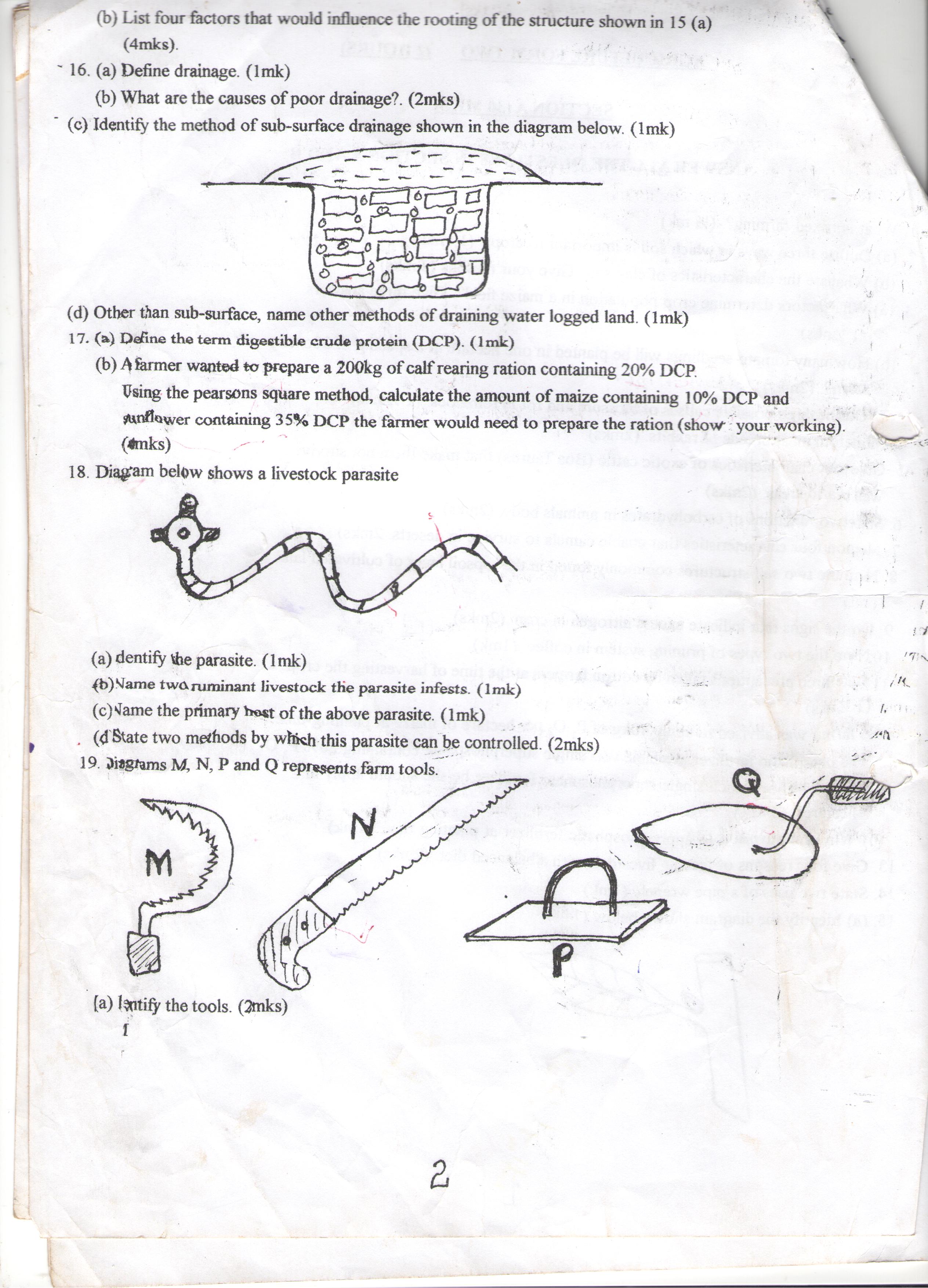
b) What are the causes of poor drainage? (2mks)

c) Identify the method of sub- surface drainage shown in the diagram below. (1mk)



d) Other than sub-surface name other methods of draining water logged land. (1mk)

1. Diagram M,NP and Q represents farm tools.



a)Identify the tools (2mks

M

N

P

Q

B) Give the use of each of the tools named above. (2mks)

M

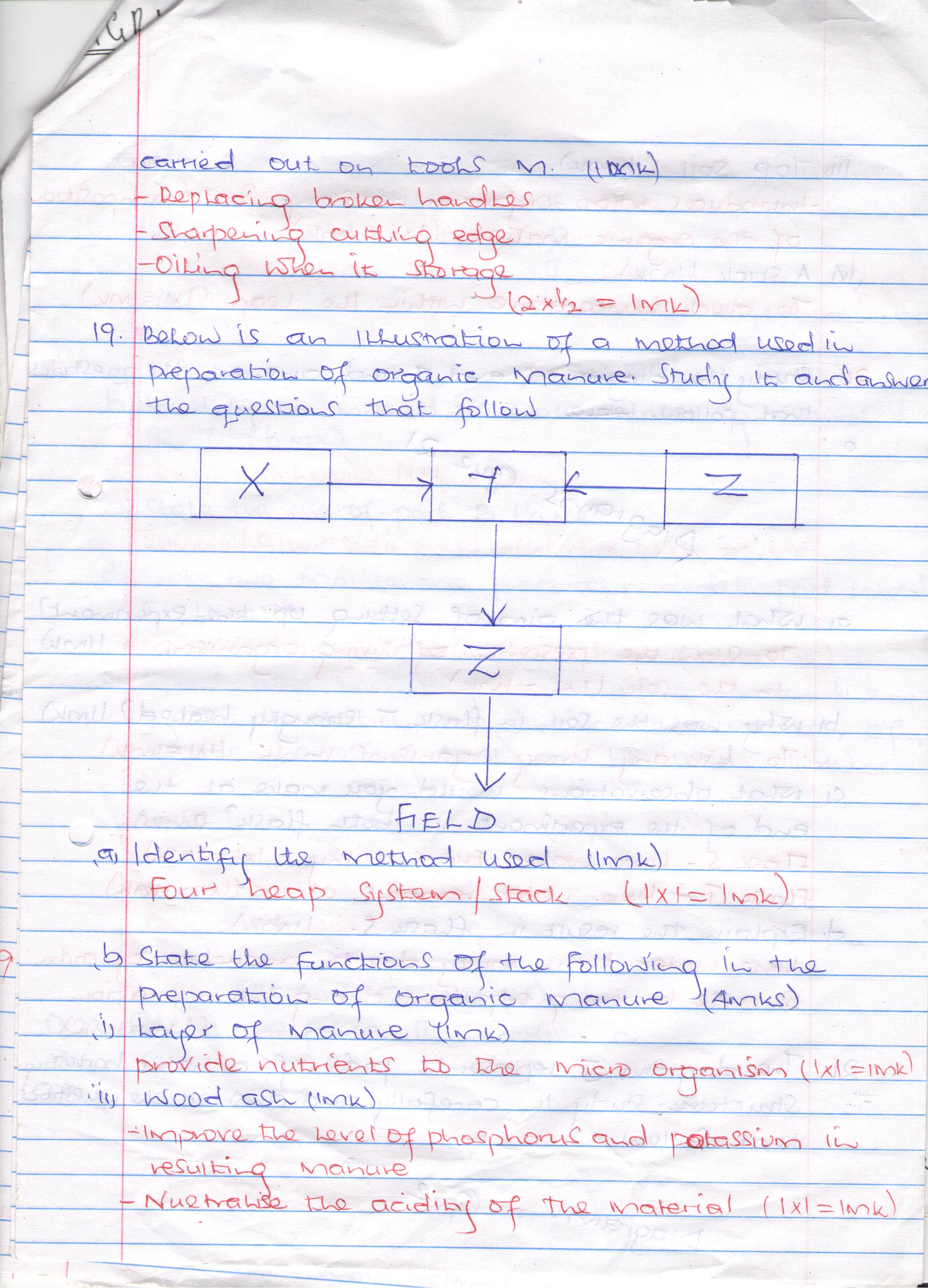
N

P

Q

C) State two maintenance practices that should be carried out on tools M. (1MK)

1. Below is an illustration of a method used in preparation of organic manure. Study it and answer the questions that follow.



a)Identify the method used. (1mk)

b) State the functions of the following in the preparation of organic manure. (4mks)

i) Layer of manure (1mk)

ii) Wood ash (1mk)

ii) Top soil (1mk)

iv) A Stick (1mk)

1. Study the diagrams Sand T and answer the questions that follow.

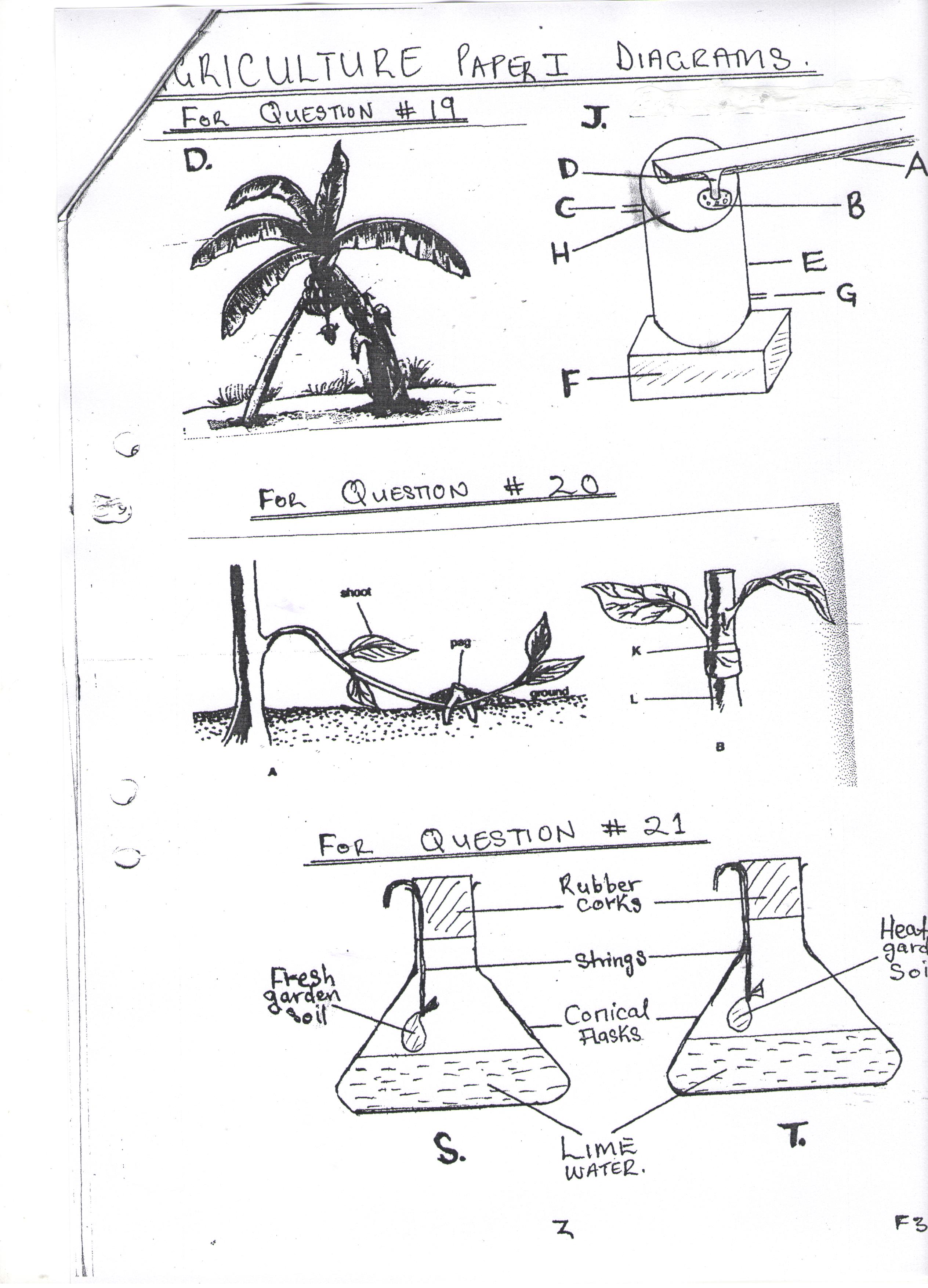


1. What was the aim of setting up the experiment? (1mk)
2. Why was the soil in flask strongly heated? (1mk)

c)What observations would you make at the end of the experiment in both flask? (2mks)

d)Explain the result in flask S. (1MK)

1. The diagram J represents parts of a water harvesting structure. Study it carefully and answer the questions that follow



a)Name the parts a- h (2mks)

A

B

C

D

E

F

G

H

b) Identify the method of water harvesting illustrated in J 1/2MK)

C)State the use of part B (1/2MK)

d)State two maintenance practices needed in part labeled E 1mk)

1. A part from harvesting water using method shown by the illustration name tow other methods of water harvesting that can be used. (1mk)

**SECTION C**

22 State the ways in which the soil loses fertility. (10mks)

b) State how a farmer prevents loss of soil fertility. (10mks)

23State the features of good farm records. (5mks)

b) Describe the uses of farm records.