**CROP PRODUCTION I (LAND PREPARATION)**

* Land preparation entails the following farming practices.
* Land clearing or bush clearing tools, chemicals and equipment used.
* Primary cultivation, tools and equipment as machines used.
* Primary cultivation, tools and equipment as machines used.
* Secondary cultivation, tools and equipment used.
* Tertiary operations e.g. ridging, rolling and leveling.
* Sub-soiling, tools used and reasons for the same.
* Minimum tillage and reasons for the secure.

The following relevant questions and their answers in this topic will greatly help and motivate

the user to comprehend and understand the required concepts and farming practices:

1. Give **three** factors that determine depth of ploughing during land preparation

2. List **four** reasons for cultivating land before planting

3. (a) What is minimum tillage?

(b) Give four farming practices that help in achieving minimum tillage.

4. (a) Describe the establishment of grass pasture from the time the land is ploughed using a mould

board plough to the time the pasture is ready for grazing

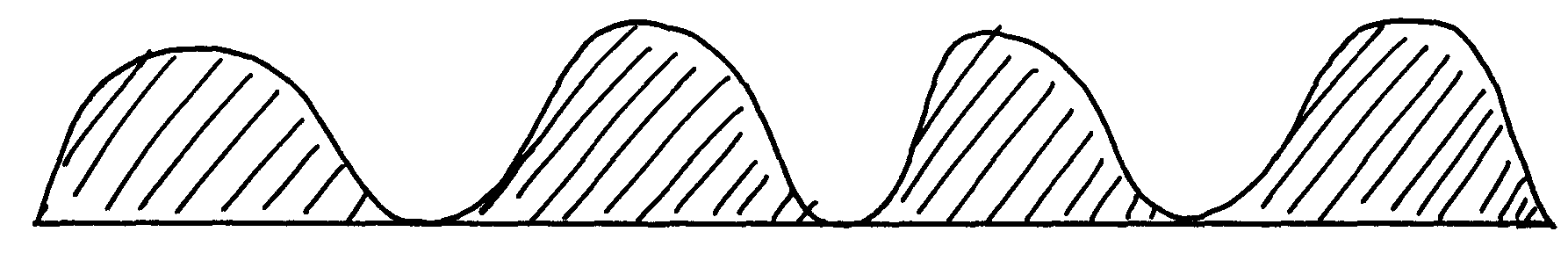
(b) Explain **five** practices that a farmer should carry out to ensure uniform germination of seeds (c) Describe **five** factors that determine the number of cultivations when preparing a seedbed

5. State **four** physical conditions of the seedbed that need to be changed to facilitate germination

6. State **four** importance of sub soiling as a tertiary operation

7. Outline **four** advantages of rolling in seedbed preparation

8. State **four** disadvantages of minimum tillage

9. The diagram below illustrate a tertiary operation carried out in the farm

a) Identify the tertiary operation

b) (i) State the importance of the tertiary operation identified in **20(a)** above

(ii) Give **two** other tertiary operations carried out in the field besides the one identified above

10. Give **two** reasons why it is advisable to cultivate the field during the dry season

11. How are hard pans caused by cultivation?

12. Give **four** factors that determine the number of secondary cultivation operations

13. Define the term minimum tillage

14. List four advantages of timely planting

15. State any **two** factors that determine the number of cultivation on a field before it is ready for

planting

17. Give **three** benefits of timely planting of annual crops

18. State **four** factors determining the depth of ploughing land