

AGRICULTURE ASSIGNMENT (B)
F.4 MAY -2020
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 same.

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