**NAME…………………………………………….ADMISSION NUMBER………………………**

**443/1**

**AGRICULTURE**

**TIME:2 HOURS**

**JULY/AUGUST 2016**

**MWAKICAN FORM 3 JOINT EXAMINATION 2016**

**KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C.S.E.)**

**AGRICULTURE**

**JULY /AUGUST 2016**

**TIME 2HOURS**

**INSTRUCTIONS TO CANDIDATES.**

* *Write your name and admission number in the spaces provided.*
* *Answer all questions in the spaces provided.*
* *This question paper consists of three sections A, B and C.*
* *Answer all the questions in sections A and B any two questions from section c.*
* *Answers should be written in the spaces provided.*

**For Examiner’s use only**

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| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum score** | **Candidate,s score** |
| **A** | 1-24 | 30 |  |
| **B** | 25-28 | 20 |  |
| **C** |  | 20 |  |
|  | 20 |  |
| Total score | 90 |  |

**This paper consists of 12 printed pages.**

Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

**SECTION A*(Answer all the questions)***

1. Define the term Agriculture. 1mk

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1. Give the meaning of the following terms as used in Agricultural Production. 1½mks
2. Olericulture…………………………………………………………………………...……………………………………………………………………………………….
3. Pomoculture………………………………………………………………………..…………………………………………………………………………………………..
4. Floriculture…………………………………………………………………………………………………………………………………………………………………….
5. State **four** advantages of mixed farming. 2mks

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1. State **four** importance of Agriculture. 2mks

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1. Give **four** ways in which Health influence Agricultural production. 2mks

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1. State **three** negative effects of wind in crop production. 1½mks

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1. State **four** aspects of rainfall that influence agricultural production. 2mks

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1. Differentiate between the following terms. 3mks
2. Soil in “situ” and soil in deposition.

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1. Soil structure and soil texture

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1. Mixed cropping and mixed farming.

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1. Give **two** reasons why burning is discouraged as a method of clearing land .(1mk)

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1. State **three** tertially operations that are carried out in the farm. 1½mks

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1. Give **three** importance of carrying out minimum tillage 1½mks

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1. State **four** importance of drainage in Agriculture 2mks

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1. Give **three** reasons as to why green manure is not commonly used. 1½mks

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1. State **three** basic concept of economics. 1½mks

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1. State **four** roles of Nitrogen in plants.2mks

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1. Outline **three** characteristics of Nitrogenous fertilizers. 1½mks

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1. State **three** importances of testing soil.1½mks

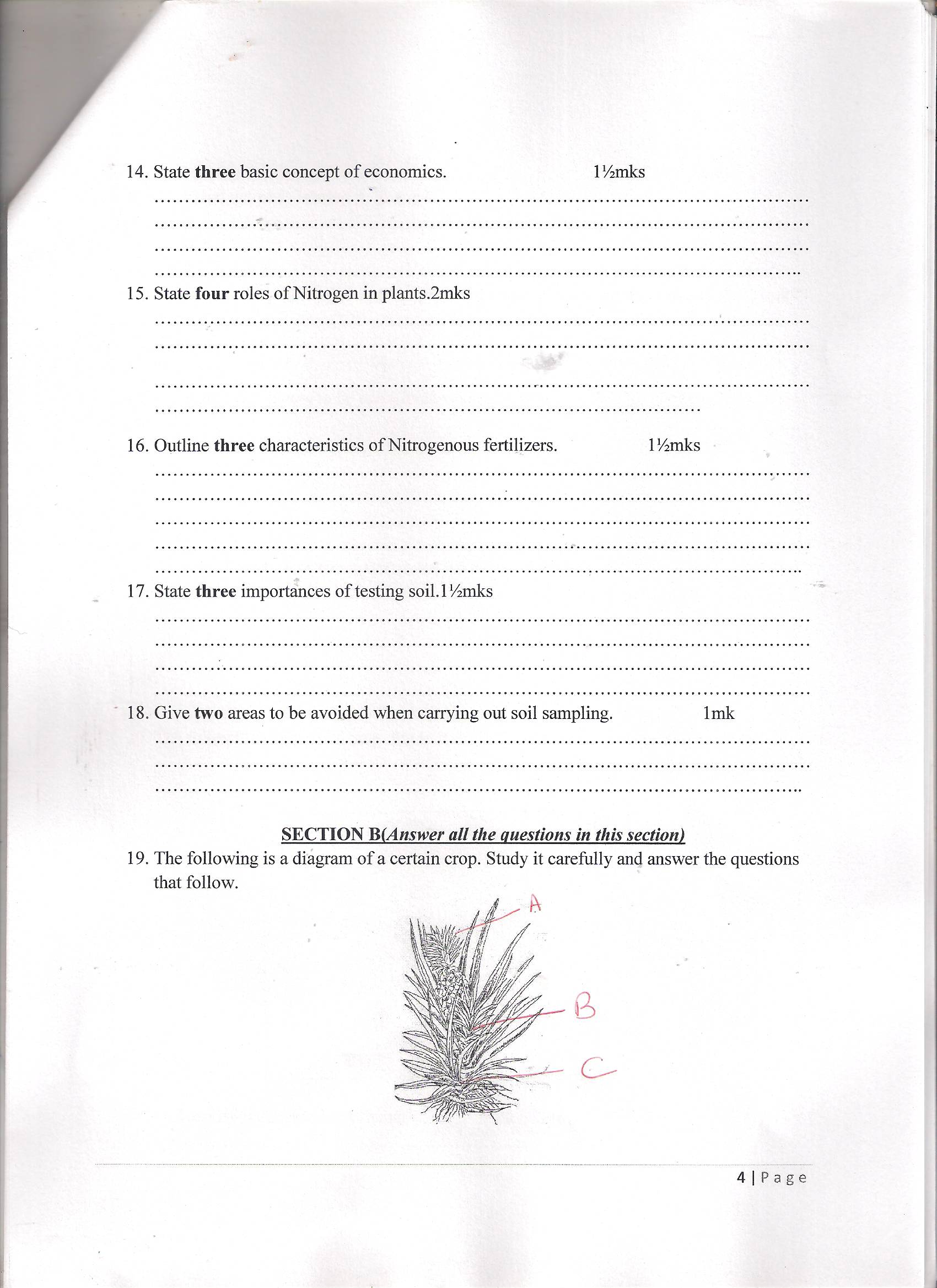
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1. Give **two** areas to be avoided when carrying out soil sampling. 1mk

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**SECTION B(*Answer all the questions in this section)***

1. The following is a diagram of a certain crop. Study it carefully and answer the questions that follow.



1. Identify the crop ……………………………………………………….. 1mk
2. Label the parts labeled A ,B and C. 1½mks

A…………………………………………………………

B…………………………………………………………

C…………………………………………………………

1. Why is the part labeled A more preferred when propagating the above crop. 1mk

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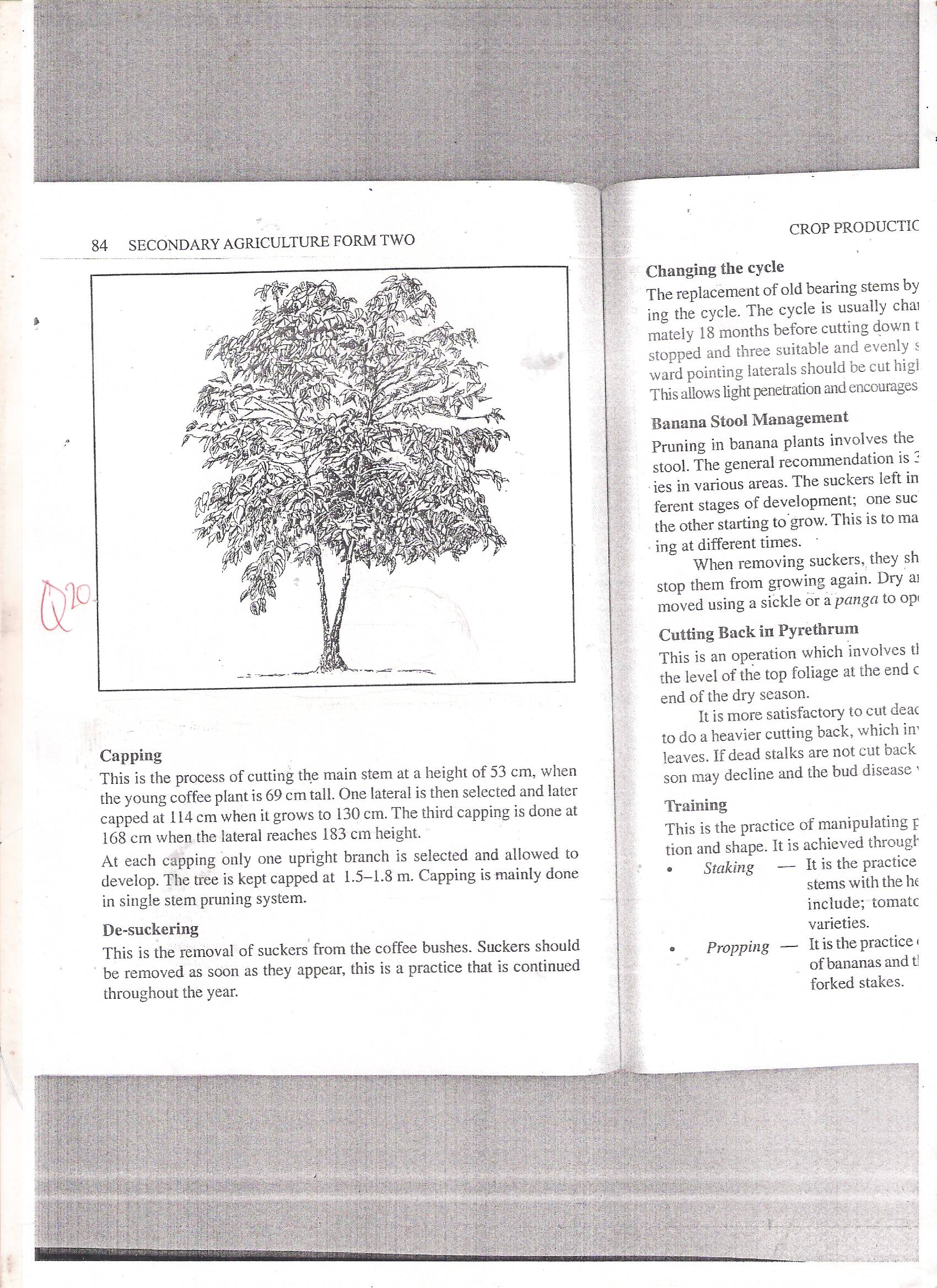
1. State **four** factors to be considered when selecting materials for planting. 2mks

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1. State **four** factors which determine the depth of planting. 2mks

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1. The following is a pruned crop. Study it carefully and answer the questions that follows.



1. Identify the method of pruning. 1mk

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1. Give **four** disadvantages of using the above method of pruning. 2mks

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1. Apart from the above give any other method of pruning coffee. 1mk

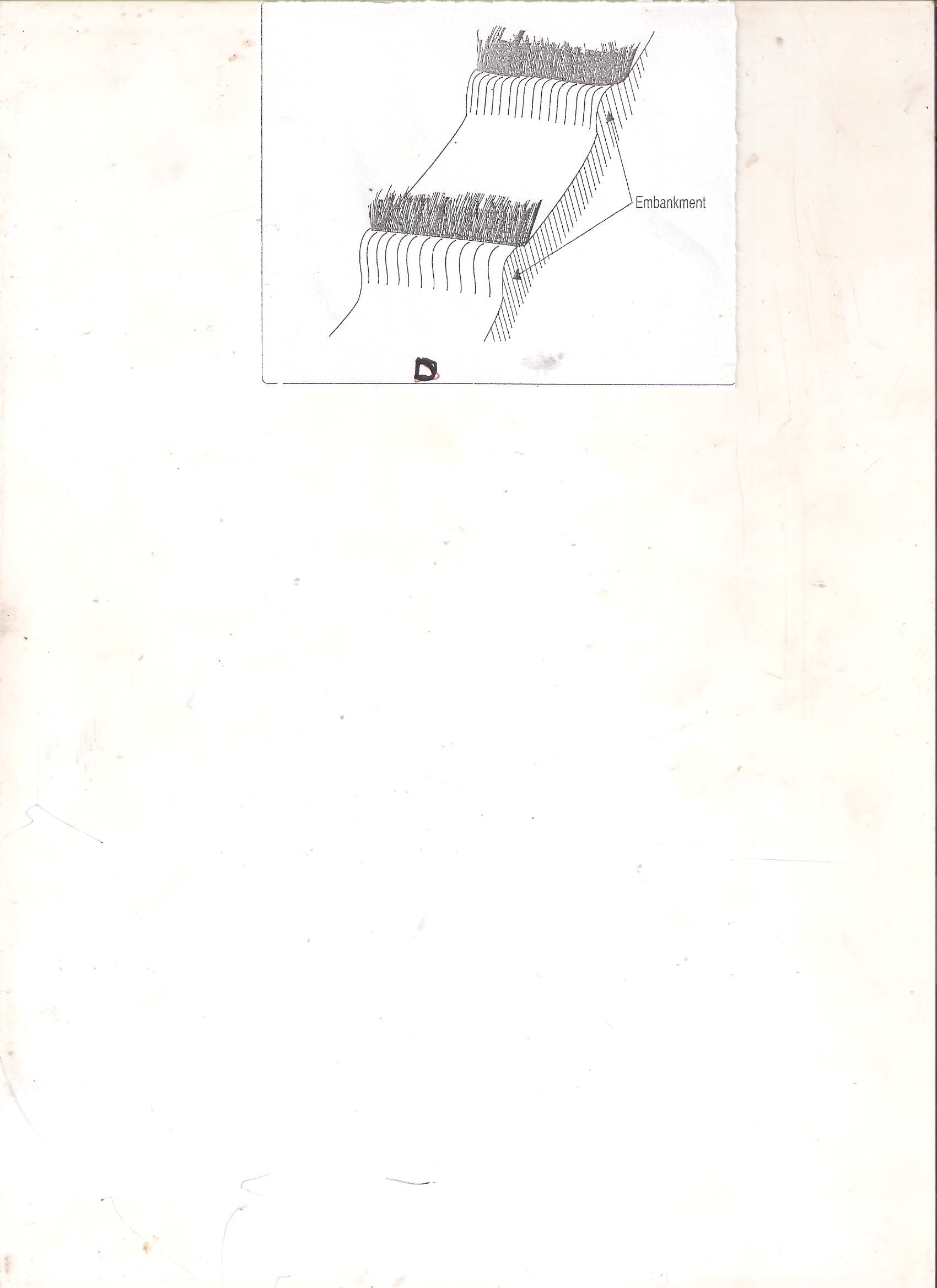
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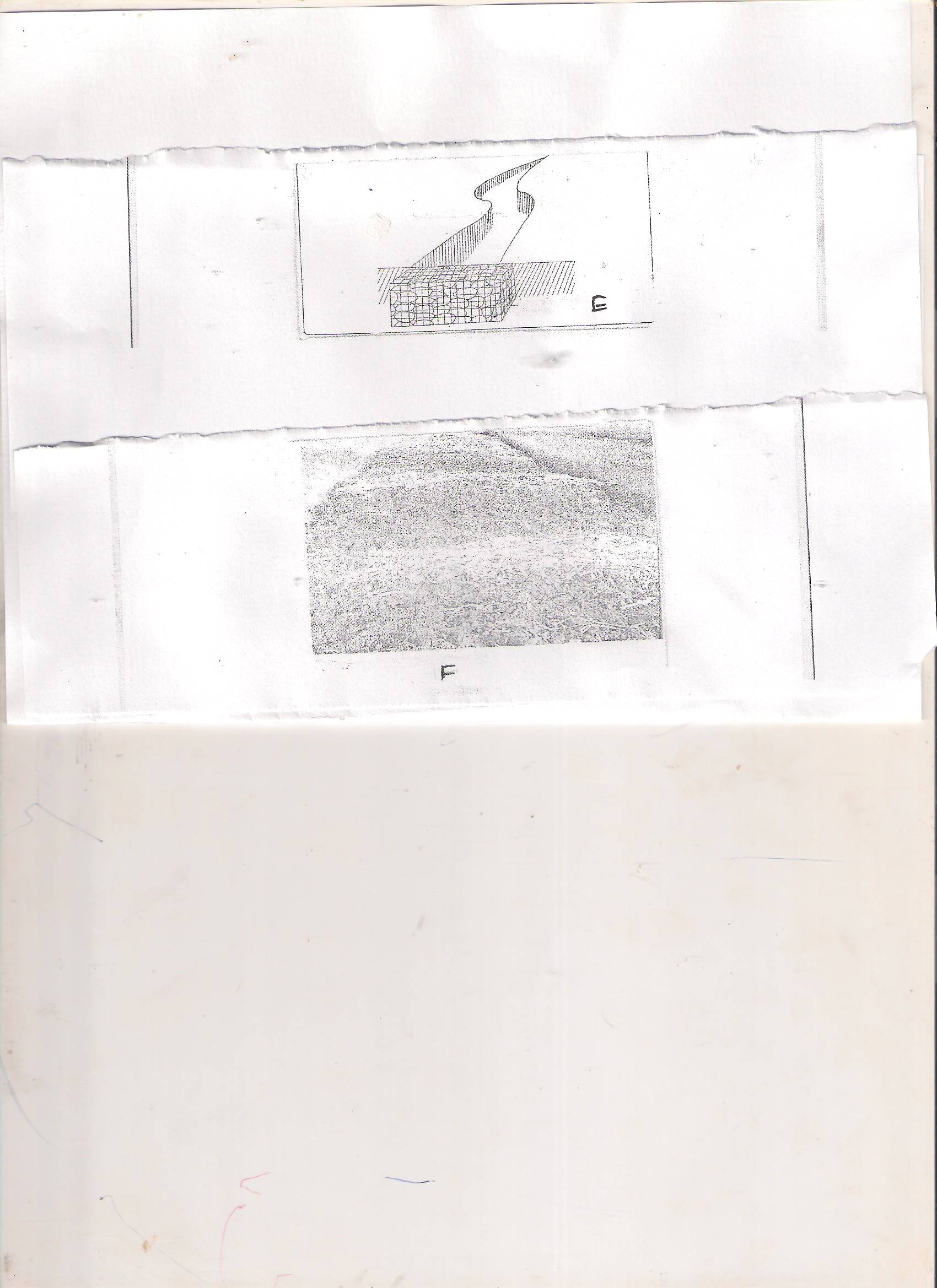
1. State **four** factors which determine the time of harvesting crops. 2mks

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1. The following are soil erosion control structures .Study the diagrams and answer the questions that follows.





1. Identify the structures 2mks

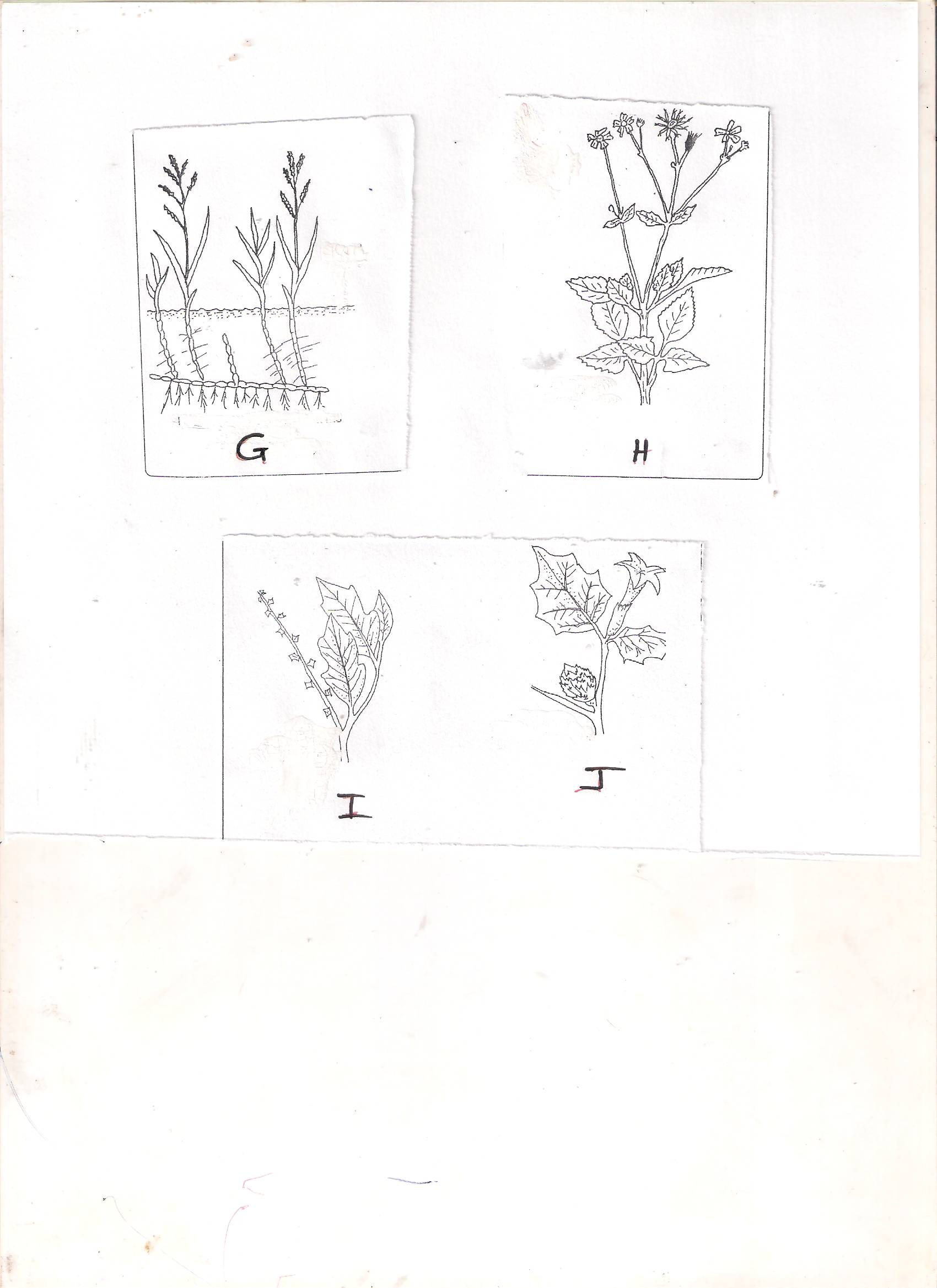
D-

E-

1. Give **two** ways in which structure E will control soil erosion. 1mks

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1. The following are diagrams of common weeds in Kenya.



1. Identify the above weeds. 2mks

G…………………………………………………………….

H…………………………………………………………….

I………………………………………………………………

J……………………………………………………………..

1. What is the economic importance of weed 1½mks

G…………………………………………………………………………………………………………………………………………………………………………………II……………………………………………………………………………………………………………………………………………………………………………………JJ……………………………………………………………………………………………………………………………………………………………………………………

**SECTION C.**

***(Answer any TWO questions in this section.)***

1. Describe the tomato production under the following the heading.
2. Ecological requirement 3mks

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1. Transplanting 5mks

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1. Field practices 5mks

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1. Diseases and their control. 4mks

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1. Harvesting 3mks

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1. (a) Describe the nursery management practices. 6mks

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(b) Outline **five** objectives of land reform. 5mks

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(c) State and explain **five** factors which determine the effectiveness of a herbicide. 5mks

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(d) State **four** precaution measures that one should take when using any chemical in the farm. 4mks

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1. (a) State **five** advantages of landlordism and tenancy system of land tenure. 5mks

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(b) State and explain **five** factors which determine the spacing of any crop. 5mks

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(c) State and explain **five** cultural methods of controlling soil erosion. (10mks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

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