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

**443/1**

**AGRICULTURE**

**TIME:2 HOURS**

**2020 FORM 4 TERM 1 END TERM EXAMS**

**PAPER ONE**

**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.*
* *The paper consists of 11 printed pages*

**For Examiner’s use only**

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| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum score** | **Candidate’s score** |
| **A** | 1-16 |  |  |
| **B** | 17-21 |  |  |
| **C** | 22 |  |  |
| 23 |  |  |
| 24 |  |  |
| **Total** |  |  |  |

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

**SECTION A(30mks)*Attempt all the questions in this section.***

1. Give two conditions under which shifting cultivation can be practiced. 1mk

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1. Differentiate between apiculture and aquaculture. 1mk

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1. Give four government policies which influence Agricultural production… 2mks

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1. State four methods of clearing land. 2mk

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1. State four importance for treating water for domestic use. 2mks

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1. Give four qualities of a fertile soil. 2mks

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1. State four types of farm records… 2mks

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1. Give four role of nitrogen in a plant. 2mks

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1. State four factors which influence the rooting of a cutting . 2mks

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1. Give four reasons for growing seedling in a nursery . 2mks

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1. Name two methods of pruning . 2mks

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1. Give two causes of blossom end rot in tomatoes. 2mks

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1. Define the following terms as used in Agriculture.
2. Land sub-division 1mk

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1. Land consolidation. 1mk

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1. State four harmful effects of weed. 2mks

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1. State two categories under which pest can be classified or mode of feeding. 2mks

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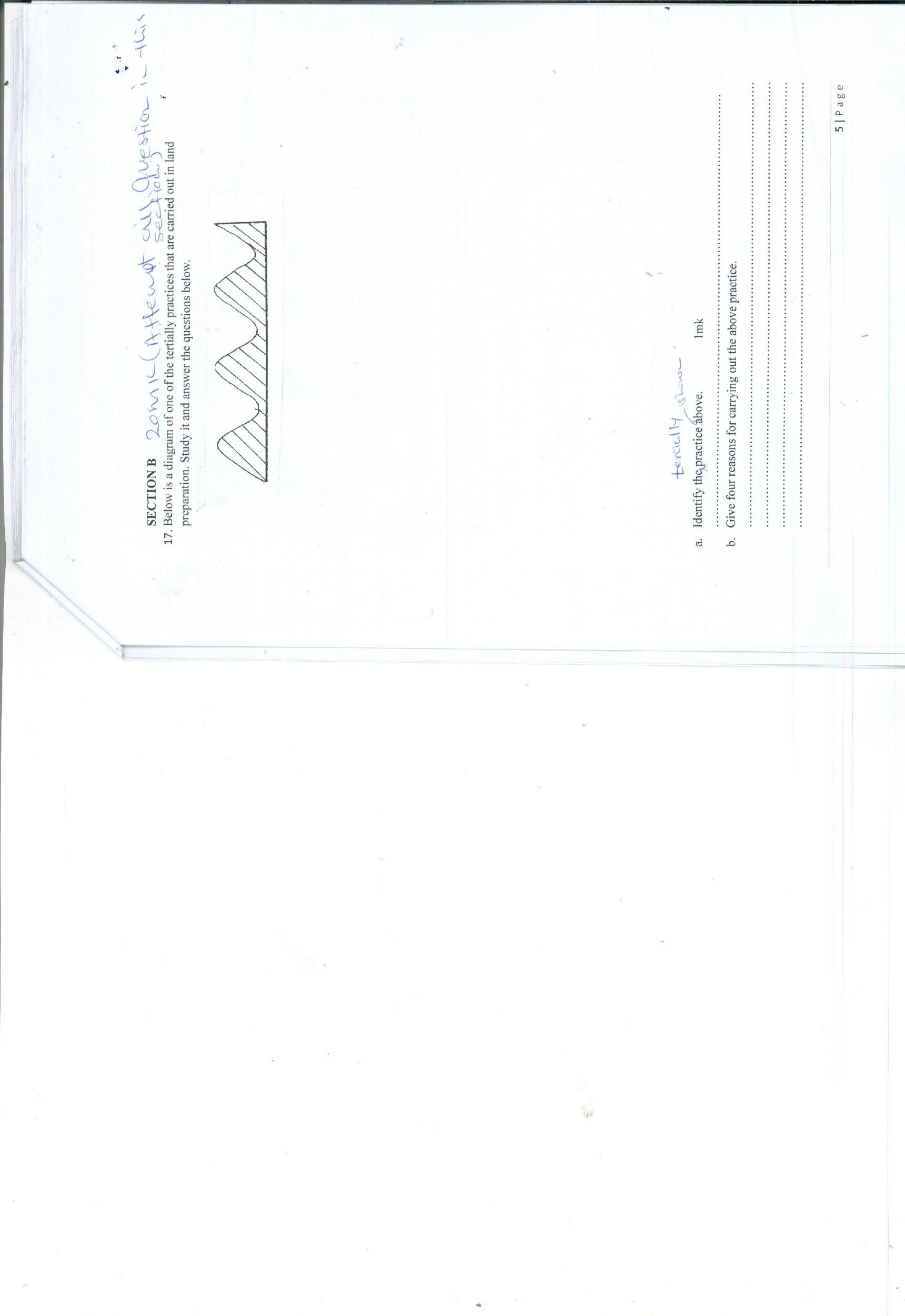
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1. Name four causes of crop diseases. 2mks

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**SECTION B:20mks:Attempt all questions in this section.**

1. Below is a diagram of one of the tertially practices that are carried out in land preparation. Study it and answer the questions below
2. Identify the tertially practice shown above. 1mk

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1. Give four reasons for carrying out the above practice. (2mks)

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1. Apart from the above practice name any other two tertiary practices that are carried out in a farm (1mk)

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1. The table below is one of the record that is kept by livestock farmer in the farm

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Dam No |  | Breed colour | Parents: sire |  | Dam |
| 1st Service | 2nd service | 3rd serivice | 4th service | Remarks | No of service |
| Date of service | Date of service | Date of service | Date of service |  |  |
| Time of service | Time of service | Time of service | Time of service |  |  |
| A  ……. | Bull No Breed | Bull No Breed | Bull no Breed |  |  |
| B…… | Result………………. | | | | |
| Expected date of calving | | | | | |
| C………………………………….. | | | | | |
| Weight of calf at birth | | | | | |
| Sex of the calf | | | | | |
| No of calf | | | | | |

1. Identify the type of record. 1mk

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1. Fill in the blank spaces 3mks

A……………………………………………………

B……………………………………………………………

C…………………………………………………………………

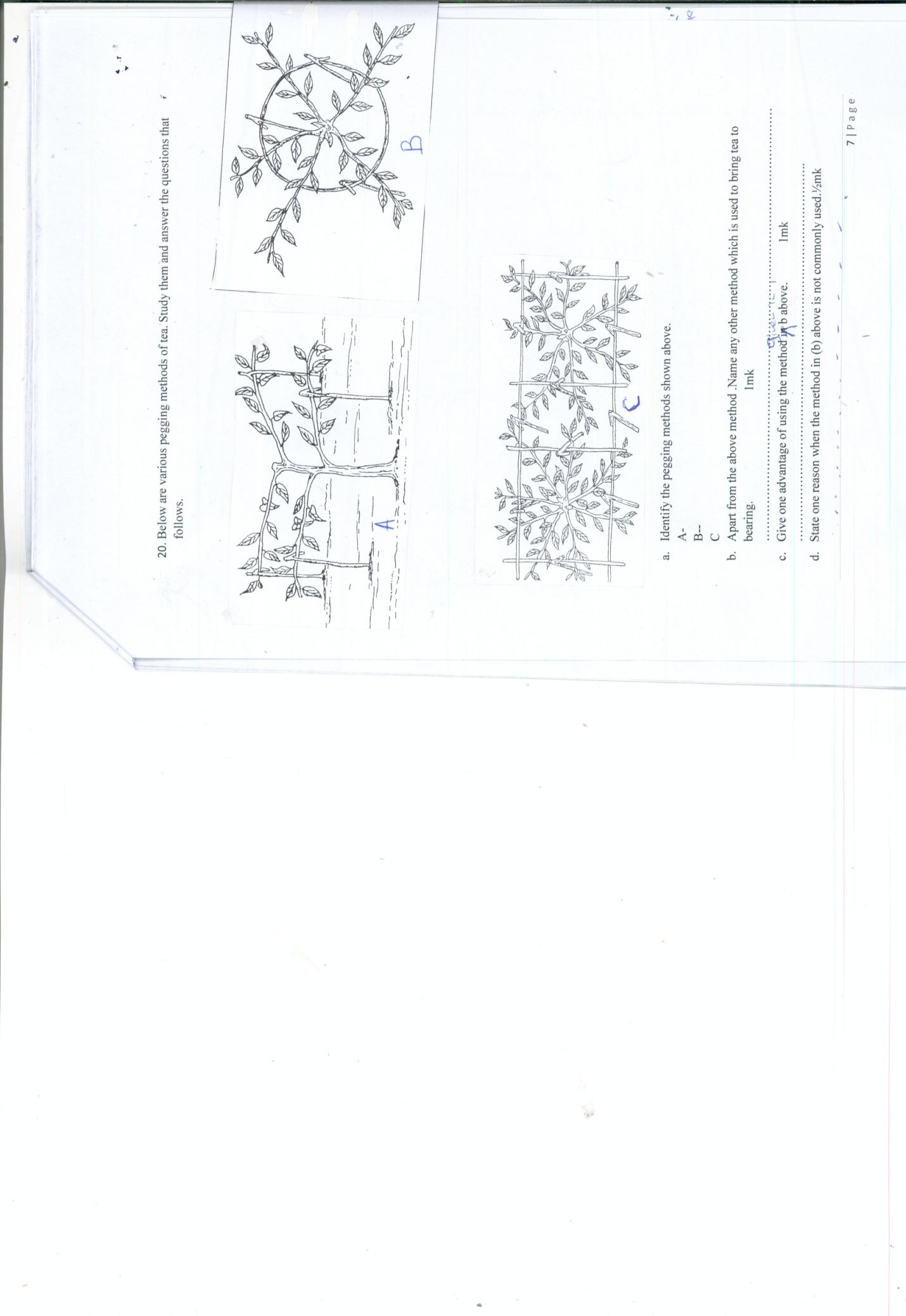
1. A farmer was advised to apply 150 kg of CAN/ha,while top dressing the maize crop.CAN contains 21% N.Calculate the amount of Nitrogen applied per ha. 4mks

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1. Below are various pegging methods of tea. Study them and answer the questions that follows.



1. Identify the pegging methods shown above. 1

A-

B--

C

1. Apart from the above method .Name any other method which is used to bring tea to bearing. 1mk

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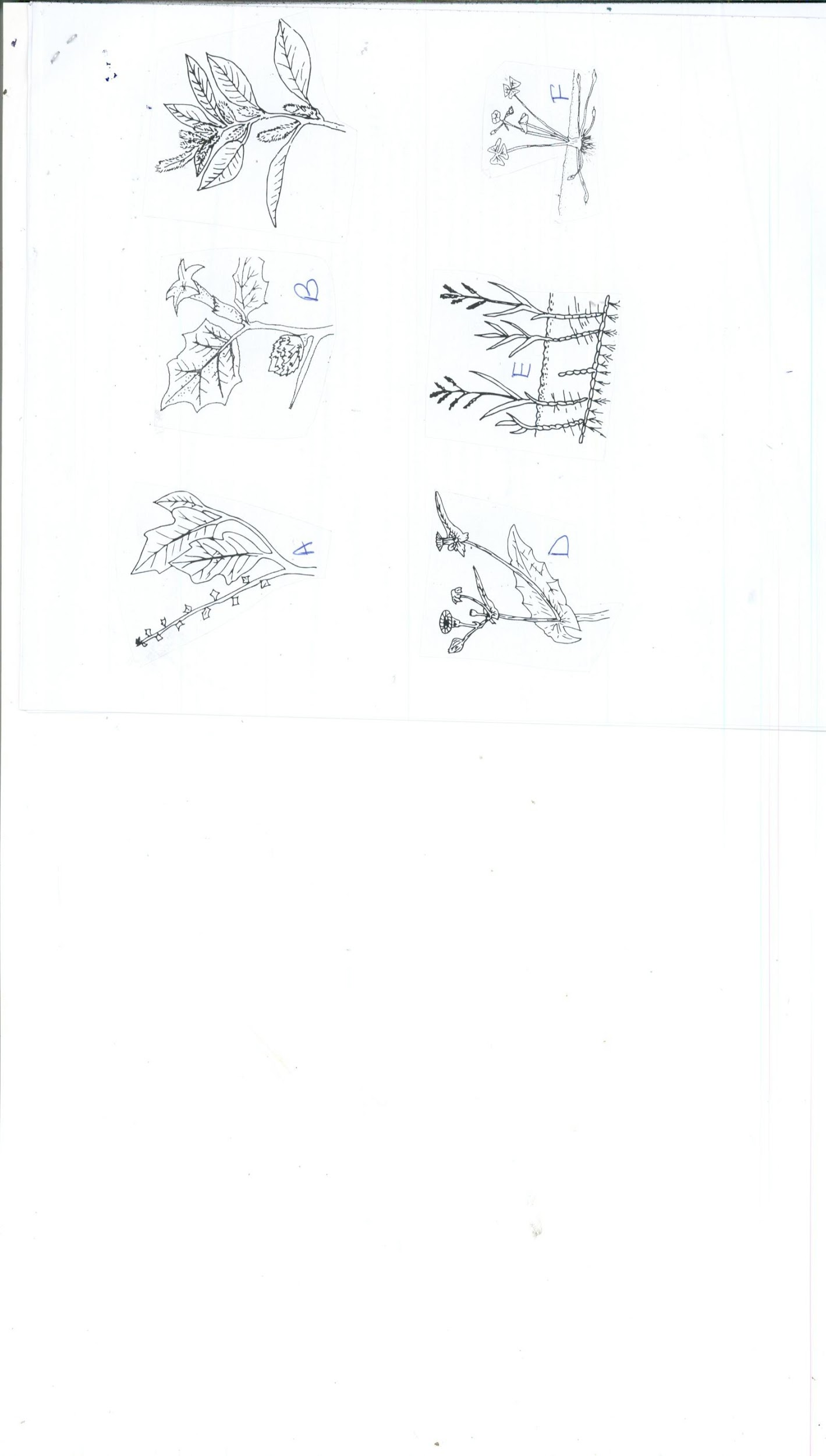
1. Give one advantage of using the method given in b above. 1mk

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1. State one reason why the method in (b) above is not commonly used.½mk

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1. Below are some of the common weeds in Kenya. Study them and answer the questions which follow.



1. Identify the weeds A,B,C D. 2MKS

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1. What contributes to the competitive ability of weed C 1mk

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1. Why is it difficult to control weed E and weed F. 1mk

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**SECTION C(Attempt two questions in this section.(40mks)**

1. (a)Describe the advantages of organic farming in Kenya. 5mks

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(b)Explain the overall effects of HIV/AIDS and ill health on Agricultural production.5mks

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(c)Describe five reasons of carrying out minimum tillage in agriculture production.5mks

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(d)Describe the uses of water in a farm . 5mks

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1. (a)Explain five ways of maintaining soil fertility. 5mks

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(b)Explain the factors which affects the spacing of any crop. 5mks

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(c)Describe five management practices carried out in a nursery bed. 5mks

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(d)Describe the field management practices in tomato production.. 5mks

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1. (a)Describe the effects of land consolidation. 6mks

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(b) Explain cultural methods of controlling pests.14mks

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