**NAME: ……………………………… DATE: ………………..………**

**SCHOOL:……………………..…… CANDIDATE’S SIGN: ….....……**

**443/1**

**AGRICULTURE**

**PAPER 1**

**JULY/AUGUST 2024**

**TIME: 2 HOURS**

**NAKURU NORTH SUB -COUNTY JOINT MOCK 2024**

**443/1**

**AGRICULTURE**

**PAPER 1**

**JULY/AUGUST 2024**

**TIME: 2 HOURS**

**INSTRUCTIONS TO CANDIDATES**

1. *Write your name, index number and class in the spaces provided above.*
2. *This paper consists of* ***THREE SECTIONS, A, B*** *and* ***C.***
3. *Answer all questions in sections* ***A*** *and* ***B*** *and two questions in section* ***C.***
4. *All your answers must be written in the spaces provided in this question paper.*

**FOR EXAMINERS USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| A | 1-18 | 30 |  |
| B | 19-22 | 20 |  |
| C | 23-25 | 20 |  |
|  |  | 20 |  |
| **TOTAL** |  | **90** |  |

***This paper consists of 12 printed pages. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no pages are missing.***

**SECTION A (30 MARKS)**

***Answer all questions in this section***

1. Highlight **two** reasons for early land preparation. (1 mk)

……………………………………………………………………………………………………………………………………………………………………………………………………………………….

2. Give **two** examples of Variable costs in the production of beans. (1 ½ mks)

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3. What is the relationship between scarcity, preference and choice. (2 mks)

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4. State **two** conditions under which the opportunity cost is zero or does not exist. (1 mk)

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5. State **four** importance of raising tomato seedlings in a nursery bed. (2 mks)

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6. Give **four** factors that affect the ensiling process. (2 mks)

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7. Give **two** examples of Books of Accounts. (1 mk)

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8. Give two reasons for imposing quarantine on imported planting materials. (1 mk)

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9. Give **three** factors that may influence the price of an agricultural commodity. (1 1/2mks)

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10. Name **three** examples of leguminous fodder crops. (1 1/2Mks)

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11. Give **two** factors that may determine the size of a pit for silage making. (1mk)

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12. Give three reasons for controlling weeds in pastures. (1 ½Mks)

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13. State **six** characteristics of a productive soil. (3 mks)

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14. A member of young farmers club was advised to apply a complete fertilizer 30:20:10 in a tomato

plot measuring 10m long by 5m wide at the rate of 300kg per hectare

1. State the percentage of P205 in the complete fertilizer. ( 1mk)

……………………………………………………………………………………………………………………………………………………………………………………………………………………….……………………………………………………………………………………………………….

1. Calculate the amount of fertilizer the member would require for the plot (2 mks)

(Show your working)

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15. State four ways of controlling bean anthracnose disease (2mks)

16. Apart from training and extension services, state four other agricultural support services the

Kenyan government provides to a maize farmer. (2 mks)

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17. List four sites on which agro forestry trees can be established on a farm (2 mks)

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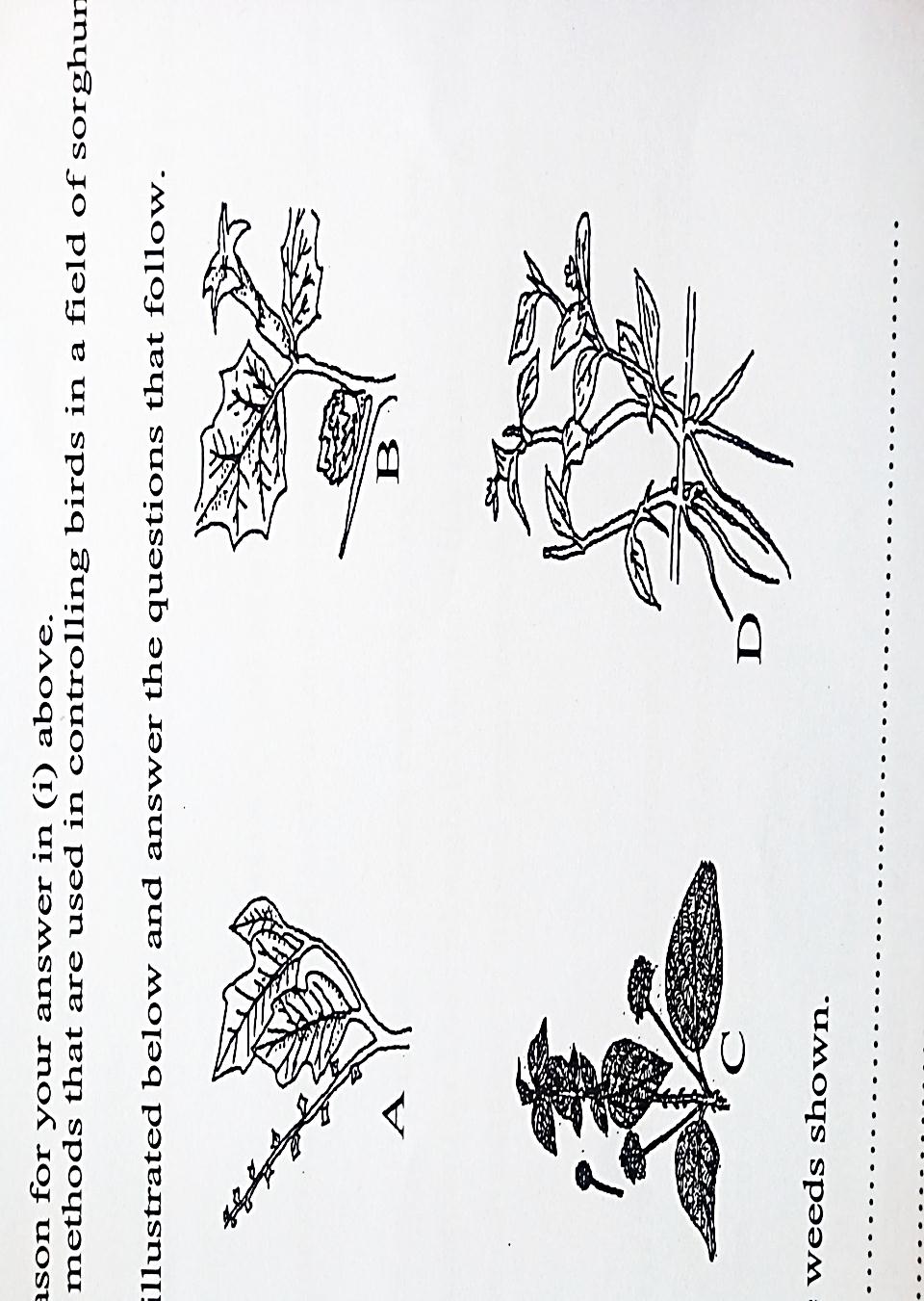
18. Give two forms in which nitrogen is absorbed from the soil by plants (1 mk)

……………………………………………………………………………………………………………………………………………………………………………………………………………………….…

**SECTION B: (20 MARKS)**

***Answer all questions in this section***

19. Study the weeds illustrated below and answer the questions that follow



1. Identify the weeds shown (4mks)

A……………………………..

B……………………………..

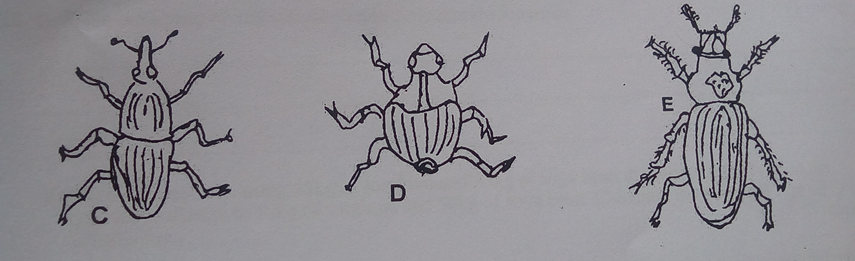
C…………………………......

D……………………………..

1. Give one economic importance of each one of the weeds (2mks)
2. ………………………………..
3. ………………………………..
4. State the advantage of weed C on the farm (1 mk)
5. …………………………………………………………………………………………………………………………………………………………………………………………………………
6. Why is weed D difficult to control (1mk)

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20. The diagrams below represent some pests. Study them and answer the questions that follow.



i) Identify the pest labeled C, D and E (3 mks)

C-……………………………………………………

D- …………………………………………………..

E- …………………………………………………..

ii) Give one reason why pest E is not controlled chemically (1 mk)

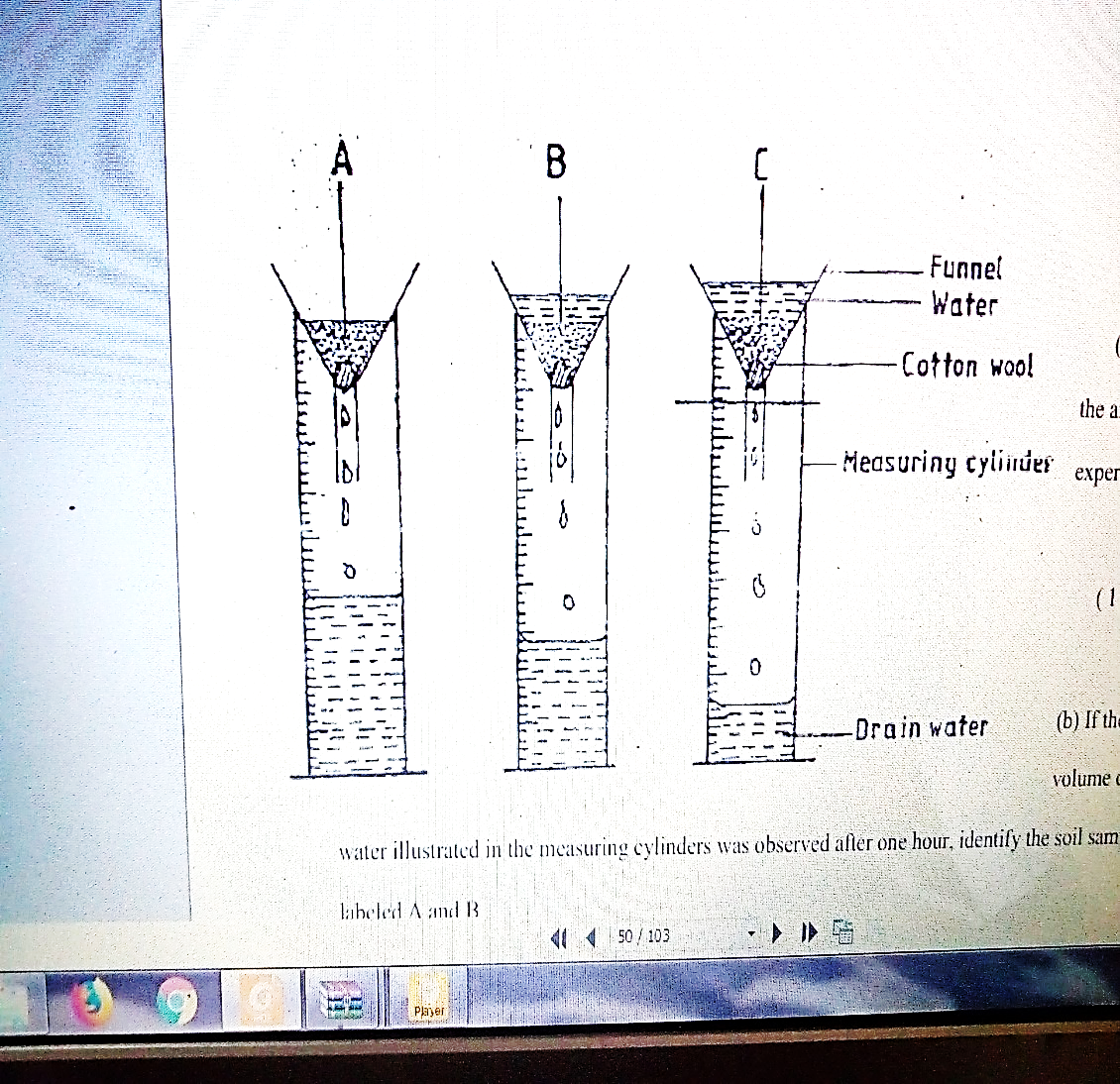
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iii) State two non-chemical methods of controlling pest C and D (1 mk)

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21. The diagram below illustrates an experiment on soil. Study it carefully and answer the questions

that follow.



a) State the aim of the experiment (1 mk)

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b) If the volume of water illustrated in the measuring cylinder was observed after one hour, identify the soil sample labeled A and B

i) Soil sample A (1 mk)

……………………………………………………………………………………………………………

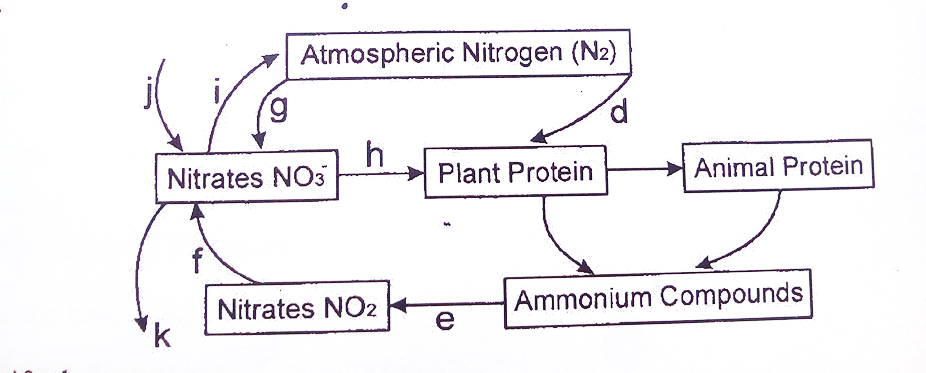
ii) Soil sample B (1 mk)

……………………………………………………………………………………………………………

c) State one way in which the soil structure of the sample labeled C above can be improved (1 mk)

……………………………………………………………………………………………………………

22. Study the illustration below which illustrates a series of changes.



1. Identify the process (1 mk)

…………………………………………………………………………………………………………

Name the organism involved in the series represented by d (1 mk)

D- ………………………………………………………

1. Identify the processes represented by h and i ( 1mks)

H- ……………………………………………………….

I- ………………………………………………………..

**SECTION C: (40MARKS)**

***Answer any two questions from this section***

23 a).Describe the field production of dry beans under the following sub headings

i). Planting (5mks)

ii) Weed control (2mks)

iii) Harvesting (5mks)

b) Outline **four** problems associated with manure use in agricultural production (4 mks)

c) Give **four** characteristics of plants suitable for green manure (4 mks)

24 a) Explain **ten** factors that can encourage soil erosion. (10marks)

b) Describe the seven management practices that should be carried out on a vegetable nursery after sowing seeds until the seedlings are ready for transplanting. (7 marks)

c) Describe the precautions that should be observed during the harvesting of pyrethrum. (3 mks)

25 a). Explain eight factors that should be considered when planning to set up a farm business.

(8 mks)

b) The information below was extracted from the financial valuation of Uwezo Micro-farm at the end of the year 2017.

**ITEM VALUE IN KSHS**

Tools in store……………………………………………. 10,000

Cattle feed in store ……………………………………… 4,000

Office equipment ………………………………………. 1,400

Calves ………………………………………………….. 5,000

Machinery ……………………………………………… 4,000

Land …………………………………………………… 260,000

Seven Mature sheep…………………………………… 7,000

Buildings ……………………………………………… 126,000

Maize in store …………………………………………… 19,000

Daily cattle ……………………………………………… 55,000

On the same date, the farm had Kshs 50000 in the bank and owed KFS kshs 4500 for fertilizers and 5000 to Unga ltd for feeds delivered and 12000 for laborers’ wages. KCC owed the farm 5000 for fresh milk delivered.

Draw up a balance sheet for Uwezo Micro farm as at 31st December 2017. (12marks)

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