**NAME­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_INDEX NUMBER\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SCHOOL\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_CANDIDATE’S SIGN\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_**

**443**

**AGRICULUTURE**

**FORM TWO**

**SEPTEMBER 2021**

**TIME: 2 HOURS**

**CASPA AMUKURA PARISH 2021 EXAMINATION**

**443**

**AGRICULUTURE**

**FORM TWO**

**SEPTEMBER 2021**

**TIME: 2 HOURS**

INSTRUCTIONS TO EXAMINEES

* Write your name ,index number and school in the spaces provided above
* Sign and write the date of examination in the space provided
* This paper consists of three sections A,B and C
* Answer all the questions in section A and B
* Answer any two questions in section C
* All answers should be written in the space provided

**For Examiners Use Only**

|  |  |  |  |
| --- | --- | --- | --- |
| section | Question | Maximum score | Candidate’s score |
| A | 1-17 | 30 |  |
| B | 18-21 | 20 |  |
| C | 22-24 | 40 |  |
|  | TOTAL | 90 |  |

**SECTION A (30MARKS)**

1. Name two plumbing tools (1mk)

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1. State four factors influencing the rate of soil formation (2mks)

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1. Give four conditions that necessitate clearing of land. (2mks)

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1. Give four physical weathering agents in the soil formation process (2mks)

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

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1. Outline four pieces of information contained in field operation records (2mks)

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1. A farmer is to apply a compound fertilizer 25:15:5 on a plot measuring 10M by 40M at a rate of 200kg
2. Calculate the amount of fertilizer the farmer would require for his plot (2mks)
3. What do the figures 25, 15 and 5 in the fertilizer stand for? (1 ½ mks)
4. State four factors which characterize small scale farming (2mks)

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1. State three reasons why sub-soiling is important practice in land preparation (1 ½ mks)

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1. What is minimum tillage (1mk)

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1. Give four problems associated with organic manure (2mks)

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1. State four characteristics of a dairy animal (2mks)

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1. State two conditions under which the opportunity cost is zero in a farming enterprise (1mk)

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1. a) state any four factors that influence spacing when planting a pure stand maize (2mks)

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1. Calculate the plant population per hectares of a maize crop planted at a spacing of 100cm×50cm. Show your working. (2mks)
2. State four characteristics of nitrogenous fertilizers (2mks)

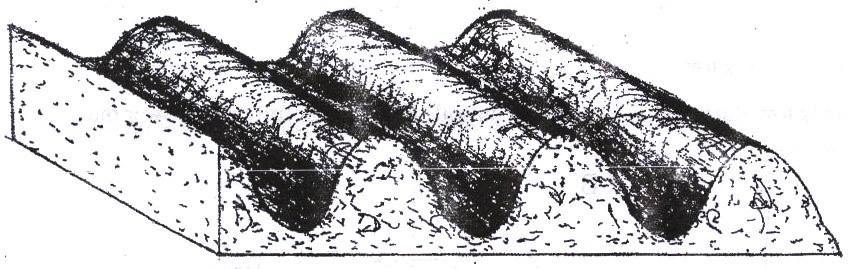
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1. State two factors that determine the time of planting of a crop. (1mk)

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**SECTION B (20MKS)**

1. The diagram below illustrates a final seedbed after tertiary operation done during land preparation. Study it carefully and answer the questions that follow**.**

A

1. Name the tertiary operation carried out on the seedbed (1mk)

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1. Describe how the tertiary operation named in (a) above is carried out (2mks)

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1. Give two advantages of planting crops on the final seed back illustrated above (2mks)

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1. Name the deficient nutrient element in plants showing the following symptoms
   1. Stunted growth, die back of plant tips, leaves roll up and chlorosis along Margins of younger leaves (½ mk)

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* 1. Yellowing of leaves appears first lower leaves turn brown and fall prematurely, stunted growth ( ½ mk)

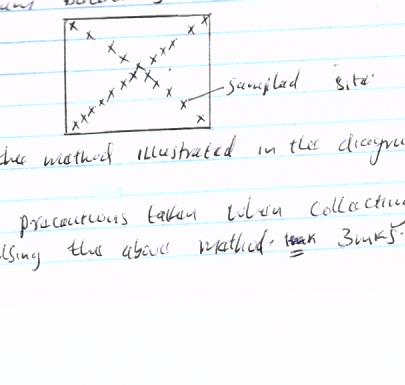
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* 1. Leaf curling, yellowing of leaves, tips and edges of leaves are scorched and have small mottles ( ½ mk)

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* 1. Purpling of leaves, stunted growth, slender stalks and lateral buds remain dormant ( ½ mk)

1. The diagram below shows a method of soil sampling



1. Name the method illustrated in the diagram above.(1mk)

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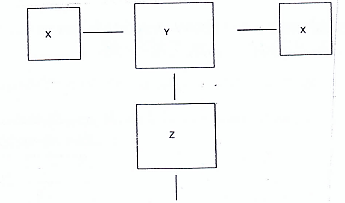
1. State 3 precautions taken when collecting the soil for testing using the above method.(3mks)

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1. Give 4 reasons why soil from the farm is tested.(4mks)

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1. The diagram below illustrates a method of preparing compost manure. Study it and answer the questions that follow.



1. Identify the method illustrated above. (1mk)

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1. By using arrows, indicate the direction of the materials from X to the field (2 marks)
2. State **two** desirable factors considered when sitting compost manure pit (2mks)

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**SECTION C (40MKS)**

1. a) State and explain 5 characteristics of a fertile soil (10mks)

b) State and explain five factors considered when establishing nursery bed site. (10mks)

23. a) Explain the **four** different methods of farming (8 marks)

b) A farmer was asked to apply fertilizers as follow: 200 kg/ha of DSP (40% P2O5), 150kg/ha of sulphate of ammonia 20% Nitrogen and 150kg/ha of Muriate of Potash 60% K2O)

1. How much P2O5 did the farmer apply per ha? (2mks
2. How much K2O did the farmer apply per ha? (2mks)
3. How much nitrogen did the farmer apply per/ha. (2mks)

c) Explain contribution of agriculture to National development. (6mks)

24. a) Describe **five** methods of drainage (5mks)

b) Describe **five** advantages of sub-surface irrigation. (5mks)

c) Outline **five**importance of livestock rearing (5marks)

d) ) Outline **five** methods of maintenance of a wheelbarrow. (5marks)