**MINCKS GROUP OF SCHOOLS**

**AGRICULTURE**

**FORM FOUR**

**443/1**

**END OF TERM TWO 2022**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_STREAM: \_\_\_\_\_\_**

**ADM NO: \_\_\_\_\_\_\_\_ SCHOOL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE: \_\_\_\_\_\_\_\_**

**INDEX NUMBER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**INSTRUCTIONS TO CANDIDATES**

1. *This paper consists of three sections,* ***A, B & C.***
2. *Answer* ***all*** *questions in section* ***A & B*** *and only* ***two*** *in section* ***C***

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAXIMUM SCORE** | **STUDENT SCORE** |
| **A** | **1-16** | **30** |  |
| **B** | **17-20** | **20** |  |
| **C** | **21-23** | **40** |  |
| **TOTAL SCORE** | | **90** |  |

***For examiners use only***

1. Give ***four*** reason why farmers are encouraged to practice organic farming ***(2mks)***

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1. Name the routine filed practice done by;
2. Removal of extra suckers in banana stool ***(1/2mk)***

***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***Removal of old stems down to level of top foliage in pyrethrum ***(1/2mk)***

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1. Removal of suckers from coffee bushes ***(1/2mk)***

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1. Distinguish between GDP and GNP ***(2mks)***

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1. What meant by the following terms

i) Seed inoculation ***(1mk)***

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ii) Seed dressing ***(1mk)***

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1. Name ***four*** types of terraces ***(2mks)***

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1. State ***three*** characteristics of phosphatic fertilizers ***(1/2 mk)***

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1. Explain the relationship between scarcity and choice as used in agricultural economics ***(2mks)***

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1. Outline ***four*** ways by which crop pest are classified ***(2mks)***

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1. State ***four*** advantages of land consolidation ***(2mks)***

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1. Outline ***four*** benefits derived from trees used in agroforestry ***(2mks)***

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1. Give ***four*** advantages of overhead irrigation in crop production ***(2mks)***

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1. State ***four*** practices which improve light intensity in crop production ***(2mks)***

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1. a) Give ***two*** factors that influence the quality of hay ***(1mk)***

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b)Outline ***two*** other methods of conserving forage in the farm ***(1mk)***

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1. Give ***four*** varieties of tomatoes grown for processing ***(2mks)***

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1. Give ***four*** harmful effects of weed on crop production ***(2mks)***

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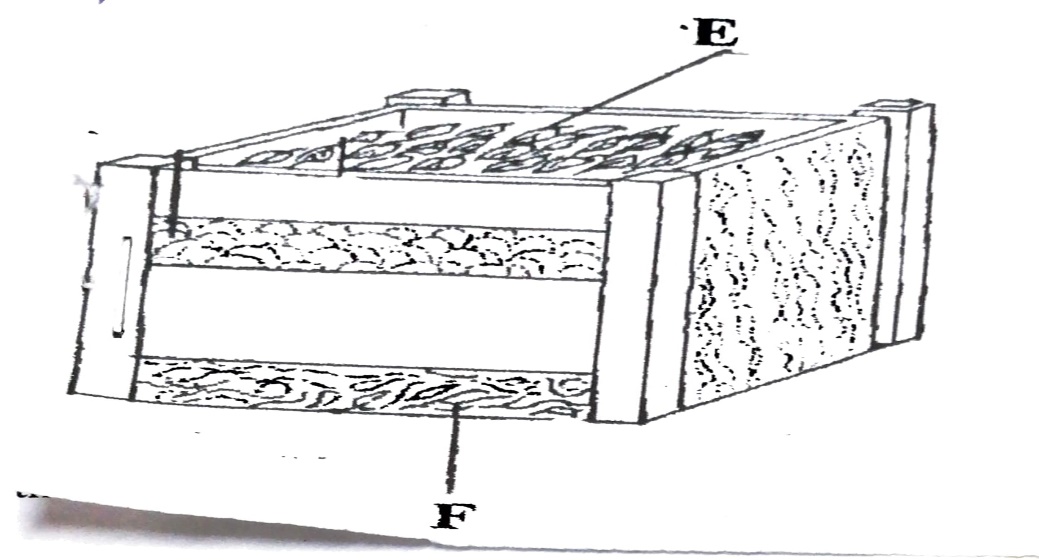
1. State ***four*** factors that influence the number of secondary cultivation in seed bed preparation ***(2mks)***

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**SECTION B (20MKS)**

**ANSWER ALL QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED**

1. The diagram below represents a method of manure preparation. Study it carefully and answer the questions that follow;



a) Identify the type of manure being prepared ***(1mk)***

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b) Name the parts labelled E and F ***(2mks)***

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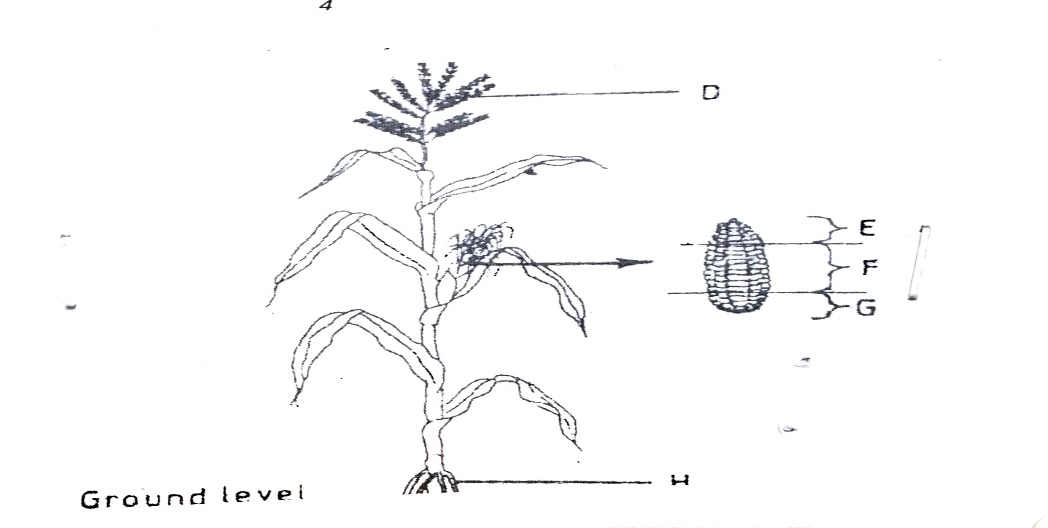
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c) Give ***two*** disadvantages of organic manures ***(2mks)***

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1. The diagram below illustrates a cereal crop plant and its produce, study the diagram carefully and answer the question that follow;



a) Name ***one*** disease that attack the part labelled D in the diagram ***(1mk)***

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b) From which section of the produce labelled E, F and G should seed for planting be obtained? (1mk)

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c) Give ***one*** reason for the answer given in (B) above ***(1mk)***

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d) State ***two*** functions of the part labelled H in the diagram ***(2mks)***

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1. A farmer wishes to change her enterprise form vegetable production to dairy farming. The costs she incurs on vegetables are as follows;

i) Weeding sh. 200

ii) Harvesting sh. 300

iii) Fertilizer sh. 500

iv) Seeds sh. 400

When she changes per enterprise to dairy she incurs the following costs;

Cost of buying cattle sh. 5000

Disease control – sh 200

Salary for milk person –sh 2000

Fencing – sh. 500

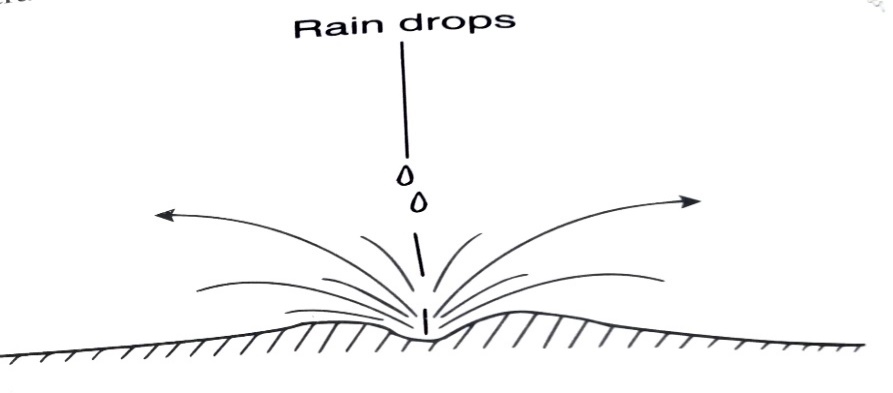
The revenue she gets from vegetable is sh 10,000 while in dairy she gets;

i) Milk sales sh 15,000

ii) Manure sales sh 1000

Draw a partial budget and indicate the effect of the proposed changes. ***(15mks)***

1. The illustration below shows a type of soil erosion. Study it carefully and answer the question that follow:



1. Identify the type of erosion illustrated above; ***(1mk)* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. Give ***three*** soil factors that influence the rate of soil erosion ***(3mks)***

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1. Name one agent of soil erosion ***(1mk)***

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**SECTION C (40 MARKS)**

**ANSWER ANY TWO QUESTIONS FROM THIS SECTION**

1. a) Describe harvesting of sugar cane ***(4mks)***

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b) Study following information which was extracted from juhudi farm record on 31-12- 95 and answer the question below

Loans payable to bank 300,000

Five milking cows 250,000

400 layers 80,000

20 goats 30,000

Debts payable to co-operative 20,000

Buildings/ structures 60,000

Bonus payable to workers 19,000

Cattle feed in store 10,000

Animal drugs in store 4,000

Debtors receivable 18,000

Breakages to repair 30,000

Cash at hand 20,000

Cash in Bank 30,000

Spray equipment 12,000

Prepare a balance sheet for Juhudi’s farm using the information above; ***(6mks)***

1. Describe the function of agricultural marketing ***(10mks)***

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1. a) Describe the procedure of silage making ***(10mks)***

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b) State ***five*** effects of winds in crop production ***(5mks)***

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c) Explain ***five*** physical methods of pest control ***(5mks)***

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1. a) Describe the safety precautions a farmer should take when using herbicides ***(5mks)***

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b) Explain ***five*** factors that influence rooting of cutting ***(10mks)***

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c) Explain ***five*** ways through which farmers adjust to risks and uncertainties in farming

***(5mks)***

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