



**443/ 1 - Agriculture - Paper 1**

**(Theory)**

**2024 – Time 2 hours**

**POST MOCK ,  
2024**

Name ..... Adm Number.....

Candidate’s Signature ..... Date .....

**INSTRUCTIONS TO CANDIDATES**

- Write your name and index number in the spaces provided above.
- The paper consists of **three** sections A , B and C.
- Answer all questions in section A and B in the spaces provided
- Answer **any two** questions from section C in the spaces provided

**FOR EXAMINER’S USE ONLY**

Section	Question	Maximum score	Candidate’s score
A	1–16	30	
B	17	20	
	18		
	19		
	20		
C	21-23	40	
	<b>TOTAL</b>	90	



**AGRI2024**



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**TURN OVER**

**SECTION A :30MKS**

**Answer All questions in the spaces provide**

1. State **two** causes of blossom-end rot in tomatoes (1mark)

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.....

2. State **four** harmful effects of weeds in agriculture. (2marks)

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3. State **four** characteristics of extensive system of farming. (2marks)

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4. State **three** agricultural practices that pollute water (1½marks)

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.....

5. (a) What is meant by the term conveyance of water? (1mark)

.....  
.....

(b) State **two** ways of conveying water. (1mark)

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6. (a) Distinguish between a nursery bed and a seedling bed. (2marks)

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.....

(b) State **four** management practices carried out on pasture. (2marks)

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7. Give **four** methods of land clearing. (2marks)

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8. Give **three** limitations of tissue culture. (1½marks)

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.....

9. (a) Distinguish between the budding and grafting (2marks)

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10. Name **two** classes of crops based on light duration. (1mark)

.....

11. List **two** tertiary operations carried out during land preparation. (1mark)

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12. State **four** disadvantages of shifting cultivation. (2marks)

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13. (a) Name **three** methods of pruning. (1½marks)

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(b) Name **three** forms of collective land tenure system (1½mks)

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14. State **four** cultural methods of pest control (2marks)

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15. (a) Define the following terms. (2marks)

i. Intercropping

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ii. Mixed cropping

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(b) State **two** importance of mulching. (1mark)

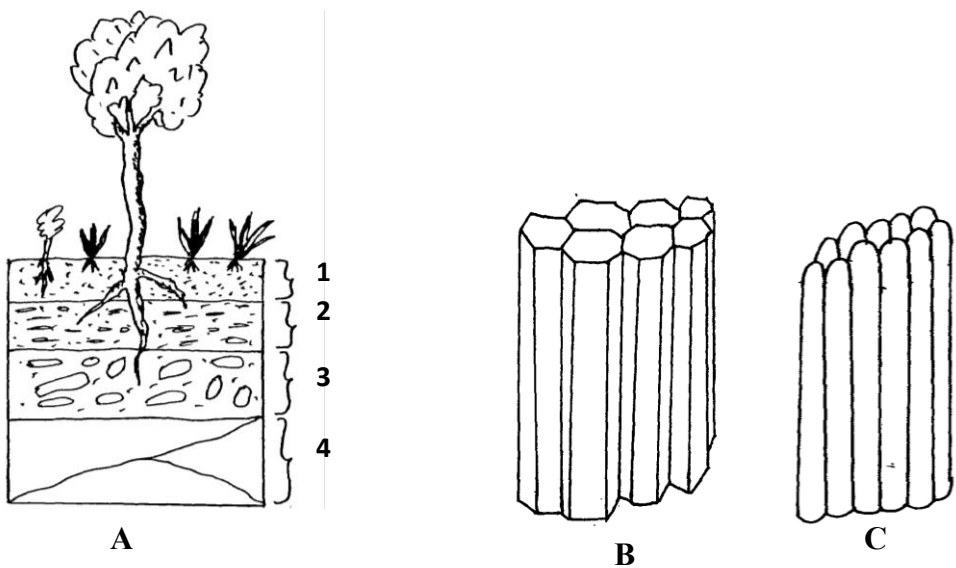
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**SECTION B (20 MARKS)**

*Answer ALL questions in this section in the spaces provided*

16. The following are diagrams illustrating a soil profile labeled **A** and **two** types of soil structure labeled **B** and **C**. Use them to answer the questions that follow.



(a) Identify the strata of the soil profile labeled 1, 3 and 4

(1 ½ mks)

1.....

3.....

4.....

(b) Identify the types of soil structure labeled **B** and **C** (1mk)

**B**.....

**C**.....

(c) Name a natural process that may change soil structure **B** into structure **C** (½ mk)

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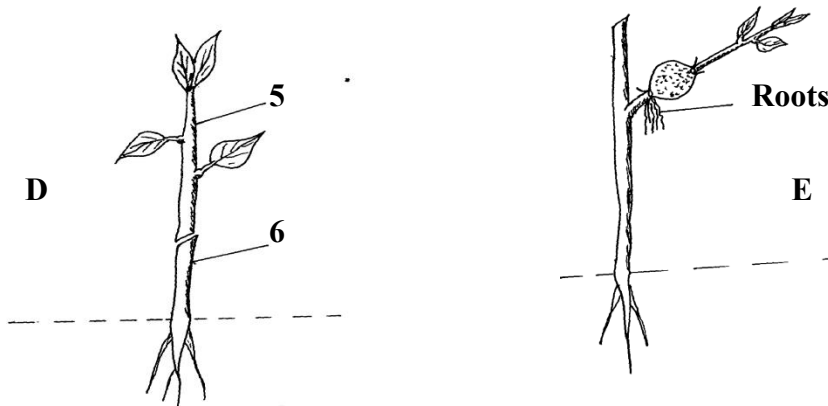
(d) State **two** limitations of the hard layer of soil that develops in layer 2 (1mk)

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.....

(e) List **two** farming practices that may destroy structure **B** (1mk)

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.....

17. The following are illustrations of methods of vegetative crop propagation labeled **D** and **E**. use them to answer the questions that follow



(a) (b) Identify methods of crop propagation labeled **D** and **E** (1mk)

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.....

(c) Identify parts of **D** labeled **5** and **6** above (1mk)

.....  
.....

(d) When does method **E** become necessary in crop production (1mk)

.....  
.....

(e) Outline **four** characteristics you would desire part 6 to have (2mks)

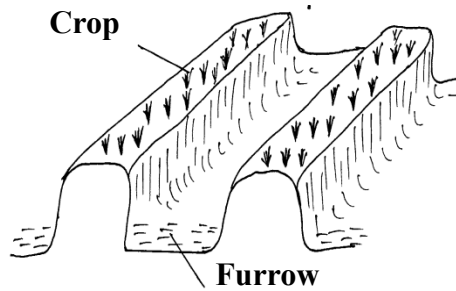
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18. The following diagram is of a method of draining waterlogged land for crop production. Study it carefully and answer the questions that follow.



(a) Identify the methods of drainage illustrated above (1mk)

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(b) Apart from the above method of drainage, name **two** other methods of draining farm/land (2mks)

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(c) Give **two** reasons for draining farm/land (2mks)

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19. A farmer was advised to top-dress his maize crop with C.A.N at the rate of 200 kg/ha. CAN contains 20% Nitrogen.

(a) Calculate the amount of Nitrogen applied per hectare (show your working) (3mks)

(b) Name **two** methods the farmer may have used to top-dress the maize crop (2mks)

**SECTION C (40 Marks)**

**Answer any TWO questions in this section in the spaces provided after question 28.**

20. a) State and explain **four** ways in which biological agents may enhance soil formation (6 marks)
- b) Discuss **six** reasons on the importance of keeping good and up to date farm accounts in the farm (6 marks)
- c) Discuss why liming is a recommended practice in crop production (4 marks)
- d) Explain the roles of irrigation water in rice production (4 marks)
21. a) Outline the procedure undertaken in inheriting a registered land upon death of the owner ( 8 marks)
- b) State the **three** harvesting practices of maize (3 marks)
- c) Discuss the processes of large scale chemical treatment of water (9 marks)
22. The following information was obtained from Keheo farm. Study the information and prepare a balance sheet for the farm for the year ended 31<sup>st</sup> JULY/AUG 2019

Payable tax	-	16,000
Interest on loan	-	24,000
Payable debts	-	14,000
Two year bank loan	-	120,000
Wages	-	24,000
Buildings	-	84,000
Receivable debts	-	12,000
Livestock	-	124,000
Feeds in store	-	12,000
Maize in store	-	42,000
Cash at hand	-	22,000
Movers	-	5,500
Cash in bank	-	52,000

7

marks

- ii) Was Keheo farm solvent or insolvent? (1 mark)
- b) State **six** advantages of mixed cropping (6 marks)
- c) Name the **three** zones of the production function and explain what happens in each of the production zone (6 marks)

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