KAPSABET HIGH SCHOOL

443/1
AGRICULTURE
PAPER 1
TIME: 2 HOURS

NAME_____ADM_____INDEX NO_____

2022 TRIAL 2 JULY INTERNAL EXAMINATION

INSTRUCTIONS TO THE CANDIDATES:-

a) Write your name and index number in the space provided at the top of this page.

b) Sign and write the date of the examination in the space provided above

c) This paper consist of three section A, B, and C

d) Answer all questions in section A and B

e) Answer any two questions in section C

f) All answers should be written in the spaces provided

g) Candidate should check the question paper to ascertain that all pages are printed as indicated and that no question is missing.

h) Candidate should answer **the question in English**

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE SCORE
A	1-16	30	
B	17-20	20	
C		20	
		20	
	TOTAL SCORE	90	

SECTION A (30marks)

Answer all questions in this section in the spaces provided

1. List **four** reasons for early land preparation. (2mks)

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2. State **four** disadvantages of clean weeding in a maize field.

(2mks)

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3. State **four** factors that determine the choice of a method of irrigation used in a farm.

(2mks)

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4. Name **two** sources of credit for a group of farmers registered as a cooperative.

(1mk)

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5. State **four** characteristics of well decomposed farm yard manure.   (2mks)

7. State **two** uses of a sales book.   (1mk)

8. Name **three** methods of training crops.

(1½mks)

9. Name **three** diseases that affect tomatoes in the field. (1½mks)

10. State **four** reasons for resettlement and settlement in Kenya.   (2mks)

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11. State **four** aspects of biological weed control.
    (2mks)

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12. State **four** symptoms of attack by the bean fly in bean production.
    (2mks)

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13. Give **three** reasons for flooding when growing paddy rice.
    (1½mks)

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14. State **four** precautions observed when harvesting cotton.
    (2mks)

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15. (a) State **two** disadvantages of tractor hire services.

     (2mks)

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.... (b) Give **four** sources of tractor hire services.

                                        (2mks)

16. State **four** functions of the National Agricultural Commodity Association.
     (2mks)

17. (a) What is meant by the term Agroforestry?   (½mk)

     (b) State **four** management practices carried out during intensive hedgerow
          agroforestry.   (2mks)

Attempt all questions in this section

18. Identify the following methods of propagation. (1½marks)
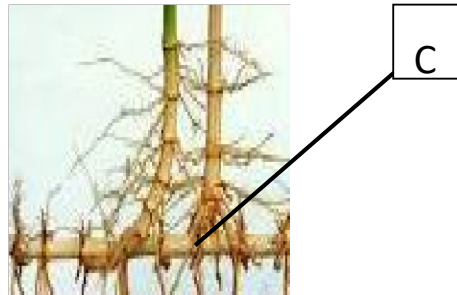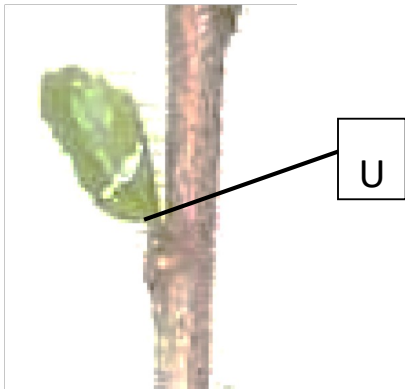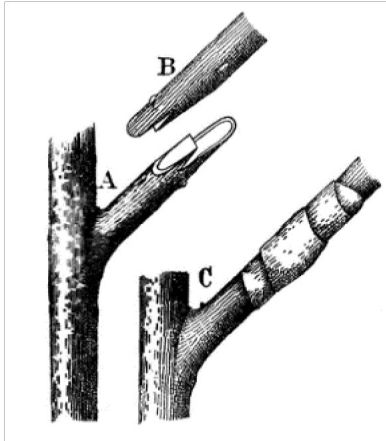
S…………………………   T……………………………

V……………………………

a) State **three** factors contribute to the success of method S?

    (1½mk)

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b) Name parts labelled B and C.

(1mk)

B   _____

C   _____

c) State two importance of the method of propagation in diagram labelled T?   (1mk)

d) Name **two** crops propagated by use of method V.   (1mk)

19. Maina's farm requires the following items on credit from Kenya farmers association on 30th March 2020

        10bags of Unga feeds Bran

        18bags of DSP Chapa meli

        24kg of Rose Coco Bean seeds simlaw seed

KFA sells the items as follows

Item no	Item	Company	Price	Quantity in store
1	Bran 90kgs/bag	Brookhouse farm supplies	Kshs. 1000/bag	200 bags
2	Bran 90kgs/bag	Unga feeds Bran	Kshs. 1200/bag	150 bags
3	Bran 90kgs/bag	EA MAIZE Millers	Kshs. 1230/bag	400 bags
4	DSP 50kgs each	Chapa meli	Kshs. 1500/bag	120 bags
5	DSP 50kgs each	Nauru international	Kshs, 1500/bag	140 bags
6	DSP 50kgs each	Boatmil industries	Kshs. 1500/bag	150 bags
7	Bean seeds Rose coco	Kenya Seed	Ksh330 / 2kgs packets	100 - 2 kgs packets
8	Bean seeds Rose coco	Western Seed	Ksh290 / 2kgs packets	400 - 2 kgs packets
9	Bean seeds Rose coco	Simlaw Seed	Ksh300 /2kgs packets	120 - 2 kgs packets

a) Prepare a purchase order that KFA made to Maina's farm.   (3mks)

20.   Below is an illustration of a method of frame formation in tea. Answer the questions that
       follow.
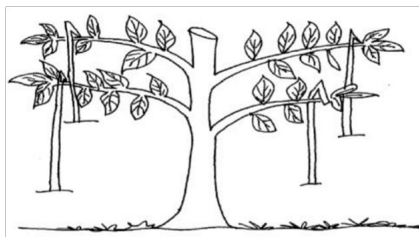
a)   Identify the above method.   (1mk)

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b)   Describe the procedure followed in (a) above   (4mks)

c)   Apart from the above method name one other method of frame formation

                                                                      (1mk)

21.   Give a reason why the following practises are important when making silage

a)   Wilting crop for 6-12 hours   (1mk)

b)   Compacting the ensiled materials every 10cm-12cm   (1mk)

c)   Checking the temperature regularly   (1mk)

d)   Ensuring that the soil over the silo maintains a hump shape after covering

                                                                      (1mk)

SECTION C (40 marks)

*Answer any **two** questions from this section in the spaces provided after question 22.*

22.   A farmer in Rongai division wishes to change from arable farming to dairy goat
      production. In arable farming he has been spending kshs.400 on weeding maize and Ksh
      200 on weeding cabbages. He spends Ksh 500 and Ksh 300 on harvesting maize and
      cabbages respectively. He buys the following inputs; DAP fertilizer at Ksh.1000,
      cabbage seeds for Ksh 400, maize seeds for Ksh 600. Pesticides cost ksh800. He also
      spends Ksh. 300 on shelling of maize.

   The change in enterprise will have the following implications; He will buy 5 dairy goats at
   ksh.2, 000 each; pay milk man ksh.3, 000; control diseases at a cost of ksh.1500. Fencing
   of the farm will be done at a cost of ksh.1, 500 .The revenue he gets when growing maize
   is ksh.10, 000 and cabbages is ksh.4, 000. In dairy goat production, he will get Ksh 20,000
   from sale of milk and Ksh 1000 from sale of manure.

      a)   Prepare a partial budget and advise the farmer whether the change is worthwhile or
            not.   (12mks)

b)   Explain **four** factors that determine the choice of a farming enterprise   (8 mks)

23 a) Explain **five** roles of Agricultural based women self-help groups in Kenya.   (5 mks)

b) The inventory of Awilo's Farm as at 31st December 2020 was as follows In Ksh:

Cash in hand	5,000
Layers	27,000
Dairy cattle	125,000
Maize in store	6,000
Calves	29,000
Buildings	70,000
Land	200,000
Machinery	75,000

On the same day, the following information was obtained from the sales record.

Bank loan	160,000
Egg sale on credit	20,000
Milk sales on credit	25,000
Vegetable sales on credit	10,000
Fertilizer purchased on credit	15,000
Wages payable	8,200
Taxes payable	8000
Interest payable on loan	4,000

(a)   Prepare a balance sheet   (8mks)

(b)   State with a reason if Awilo's farm solvent or insolvent   (1mk)

(c) State five ways through which agricultural practices pollute water bodies.

(5mks)

25. The tables below show the weekly demand and supply for wheat.

Price (Ksh.)	Quantity demand (kg)
200	250
180	350
160	550
140	900
120	1300
100	1850
80	2500

Price (Ksh.)	Quantity supplied (kg)
200	2500
180	2250
160	2000
140	1700
120	1300
100	800
80	100

a.   (i) Draw a demand and supply curve on the graph attached   (7 mks)

       (ii) Determine the equilibrium price for the wheat   (1mk)

       (iii)   Calculate the elasticity of demand for

       a.   Price fall from ksh.20 to ksh.18 per kg.   (2mks)

       b.   (i) If the price increased from kshs.20 to kshs.22 and elasticity of demand is 6.

(2mks)

       (ii) Find the quantity demanded at higher price.   (2mks)

c. Explain **two** factors that affect the demand of tomatoes other than price.

(2mks)

b) Describe four characteristics of variable inputs   (4mks)