GENIUS EXAM 2024

NAME…… INDEX NUMBER……

SCHOOL……. CANDIDATE'S SIGNATURE……..

DATE…….

443/1
AGRICULTURE
PAPER 1
TIME: 2 HOURS

KCSE PREDICTION 2024

Kenya Certificate of Secondary Education
AGRICULTURE
PAPER 1
2 HOURS

INSTRUCTIONS TO CANDIDATES:

(a) *Write your name and index number in the spaces provided.*
(b) Sign and write the date of examination in the spaces provided.
(c) This paper consists of three sections: A, B and C.
(d) Answer ALL the questions in Section A and B in the space provided.
(e) Answer any two questions in section C in the space provided.
(f) Candidates should check the question paper to ascertain that all the pages are printed as indicated
and that no questions are missing.
g) The paper has 17printed pages

For Examiners Use Only

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 - 19	30	
B	20 - 23	20	
C	24	20	
	25	20	

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	26	**20**	
TOTAL SCORE		**90**	

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SECTION A-30 MARKS ANSWER ALL THE QUESTIONS

1.**List two** advantages of practicing mixed farming. (1 mark)

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2.**Differentiate** between **aquaculture** and **apiculture.** (1 mark)

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3.**State four advantages** of organic farming in agricultural production. (2 marks)

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4.**Name four aspects** of rainfall that a farmer should consider during selection of a crop to grow in a given area. (2 marks)

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5.**State four ways** through which the amount of light harnessed by a plant can be increased.

(2marks)

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6.**State two disadvantages** of superfluous water in the soil during crop production.(1 mark)

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7.**Give two ways** through which cultural beliefs and practices affect agriculture production

(2 marks)

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8.**Mention two ways** through which the pH of an alkaline soil can be lowered. (1 mark)

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9.**State three conditions** of land that necessitate land cleaning before primary cultivation (1½marks)

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10.**List three factors** that determine the number of secondary cultivation done.(1 ½marks)

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11.**Name two methods** of soil sampling. (1 mark)

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12.**State two of advantages** of using crowns instead of suckers in pineapple production(1 mark)

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13.**List down four importance** of budding in crop production. (2 marks)

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14.**State four** cultural **methods** of water and soil conservation. (2 marks)

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15.**Outline fourharmful effect** of weeds in livestock forage production. (2 marks)

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16.**Give four reasons** for land redistribution in Kenya. (2 marks)

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17.**State four ways** in which labour productivity can be improved. (2 marks)

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18.**Outline three qualities** of a good farm manager. (1½ marks)

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19.**State three functions** of National Cereals and Produce Board(NCPB) in Kenya. (1 ½ marks)

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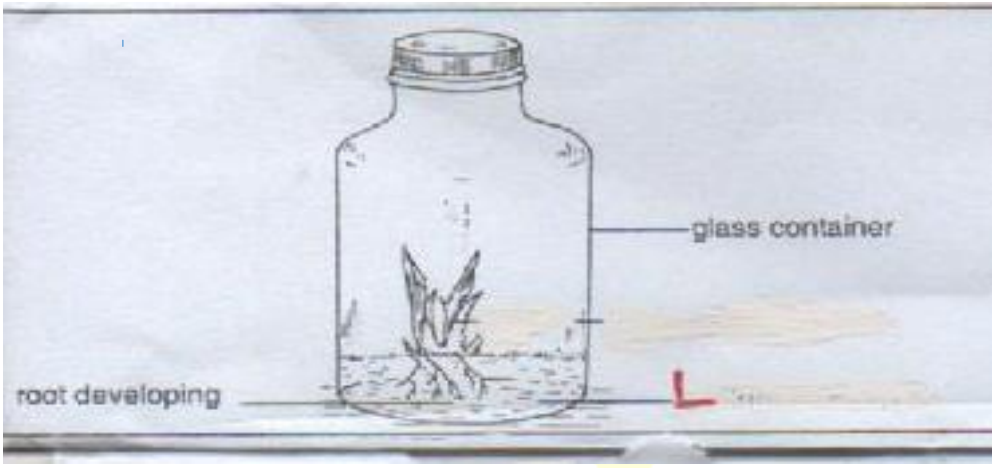
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SECTION B- 20 MARKS. (ANSWER ALL QUESTIONS)

20.The diagram **below** shows a **nursery practice**.

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a.) **Name** the practice shown. (1 mark)

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b.) **State three advantages** of the practice over any other nursery practice. (3 marks)

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c.) **State** the function of **L.** (1 mark)

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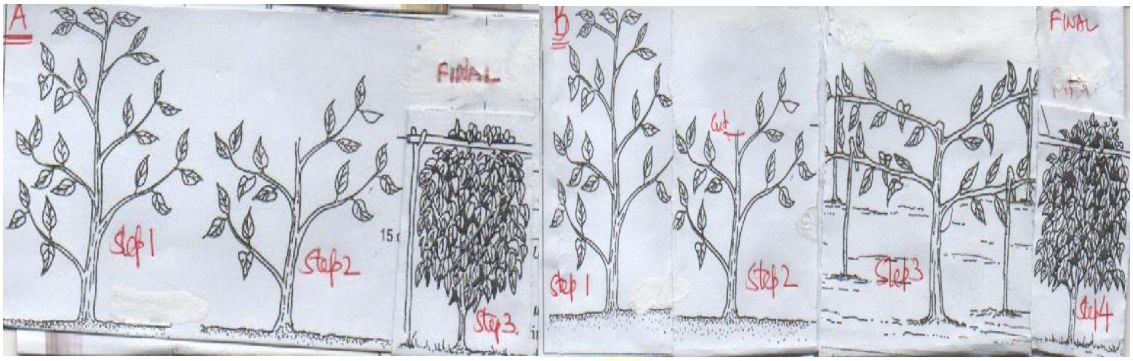
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21.) The **diagrams below** represent field practices carried out in tea.



a) **Name** the **method** being undertaken in **A** and **B**. (1 mark)

A.....

B.....

b) **State two advantages** of method **B** over method **A**. (2 marks)

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c)**Name two** other ways used to achieve same results as in practice **B**. (2 marks)

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22.) The **diagrams** below **represents** various weeds that grow in crop fields. Use the diagrams to answer the questions that follow.







a) **Name** the weed (1 mark)

I ……

II……

b) **Give one** harmful effect of each of the weeds I, II and III (3 marks)

I……

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II……

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III……

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23.) Mr. MWANGI has **4 hectares** of arable land.**1.5 hectares** are under wheat production,**0.5 hectares** under maize,**0.3 hectare** under fodder crops and the rest is under improved grass ley. He wishes to know if replacing **0.3 hectares** of maize with potatoes in the following season would be worthwhile. Fertilizer rate would have to be increased from **2 bags per hectare to 2.5 bags per hectare for potatoes** and an extra **40mandays** of casual labour per hectare would be required for the change. Average yield of maize and potatoes are **56 and 90 bags per hectare respectively**. The price of maize is **Ksh. 1200 per bag and Ksh. 300 per bag of potatoes**. Seed **costs Ksh1350 per 10 kg maize and ksh 200 per 50 kg potatoes**. DAP fertilizer **cost ksh 1400 per 50 kg bag.** Labour **cost ksh 150 per man day**. MWANGI requires **10 bags of potatoes seed and 1 bag of maize to cover 0.3 hectares of land**.

a) Draw up a **partial budget** to **determine** the effect of the change. (1/2 x8 = 4 marks)

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b) **State** the rational decision he should make basing on your calculations. (1 mark)

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SECTION C ANSWER ANY TWO QUESTIONS IN THIS SECTION.

24.)**Describe**the production of tomatoes **under** the following **subheadings**.

a) Transplanting. (10 marks)

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b)**Field** management practices. (10 marks)

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25.a) **Explain** the following **terms** as used in product-product relationships.

i) **Supplementary products**. (2 marks)

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ii) **Complimentary products**. (2 marks)

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b) **Explain seven factors** considered during farm planning. (14 marks)

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b)**Explain five problems** associated with credit in agricultural production. (10 marks)

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