

NAME..... INDEX NUMBER.....

SCHOOL..... CANDIDATE'S SIGNATURE.....

DATE.....

443/1

AGRICULTURE

PAPER 1

TIME: 2 HOURS

JULY/AUGUST 2018

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 17 printed 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	
	26	20	
TOTAL SCORE		90	

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 four harmful 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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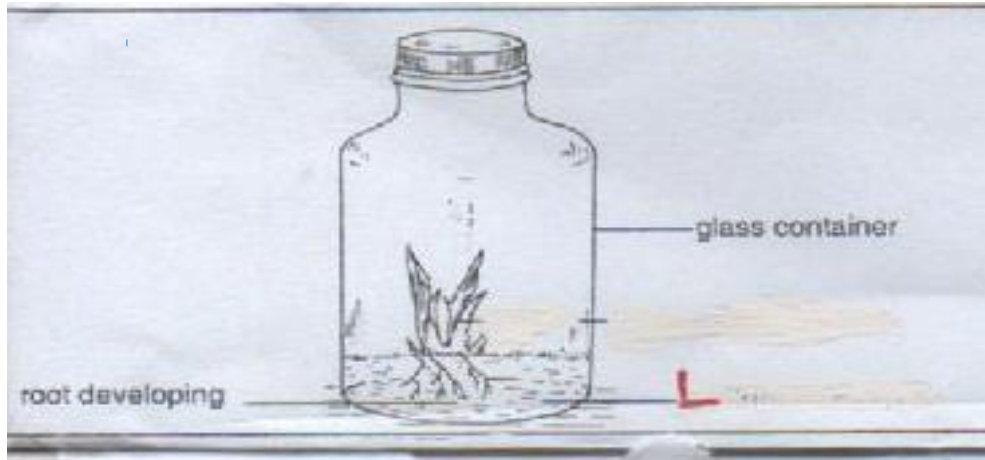
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SECTION B- 20 MARKS. (ANSWER ALL QUESTIONS)

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



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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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.....

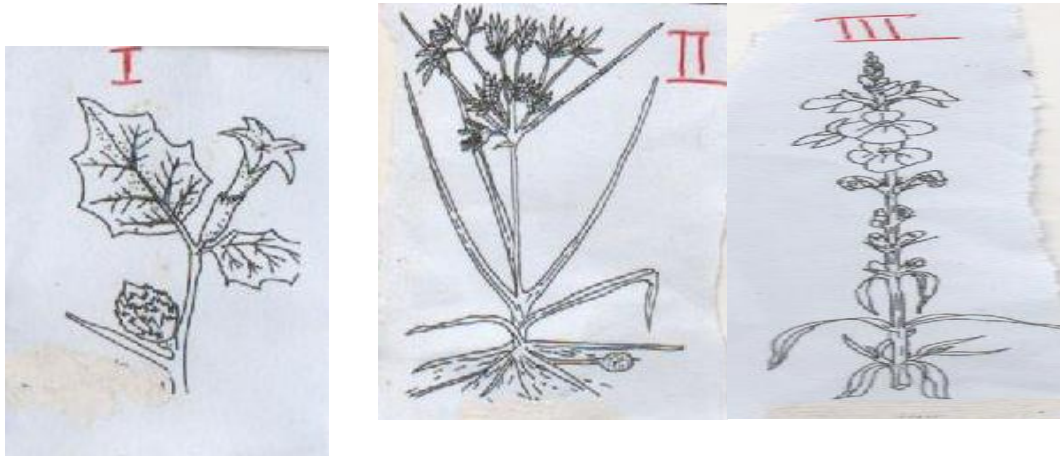
b) **State two advantages** of method **B** over method **A**. (2 marks)

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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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a) Draw up a **partial budget** to **determine** the effect of the change. (1/2 x 8 = 4 marks)

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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