GENIUS EXAM FINAL PREDICTION 2024

NAME……INDEX NUMBER……

CANDIDATE'S SIGNITURE ……DATE……

AGRICULTURE
FORM 4
PAPER 1
443/1

INSTRUCTIONS TO CANDIDATES

(a). Write your name and index number in the spaces provided.

(b) Sign and write the date of the examination in the spaces provided above.

(c). This paper consists of three sections; A, B and C

(d) Answer all the questions in section A and B

(e) Answer any two questions in section C

(f) All the answers should be written in the spaces provided.

(g) Candidates should check the questions papers to ascertain that all the pages are printed as indicated and that no questions are missing.

(h) Candidate should answer all questions in English.

For examiner's use only

Section	Question	Maximum score	Candidate's score
A	1-11	30	
B	12-15	20	
C		20	
		20	
	TOTAL	90	

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1, State four factors determining farming systems (2 marks)

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2. State four advantages of extensive farming system. (2 marks)

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3. State four importance of optimum temperature in crop production. (2 marks)

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4(a) Name three physical properties of the soil. (1 ½ marks)

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b) State three importance of soil structure on production. (1 ½ marks)

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c) State four reasons why burning of vegetation as a method of land clearing is discouraged. (2 marks)

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5(a) State three factors influencing depth of cultivation. (1 ½ marks)

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b)i) What do you understand by the term sub-soiling. (½ marks)

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ii) State two reasons for sub-soiling (1 mark)

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6. State four features of a productive soil. (2 marks)

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7(a) State two deficiency symptoms of iron in crop production. (1 mark)

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b) Name two roles played by iron in crop production. (1 mark)

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8. State four advantages of using inorganic fertilizers over organic fertilizers. (2 marks)

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9(a) Name four sites to avoid when carrying out soil sampling. (2 marks)

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b) State four advantages of using vegetative materials for planting. (2 marks)

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10. Complete the table below (2 marks)

Plant part used for vegetative propagation material	Crop plant
1.Splits	
2.Bulbils	
3. Suckers	
4.Crowns	

11. (i) State four advantages of using certified seeds in crop production. (2 marks)

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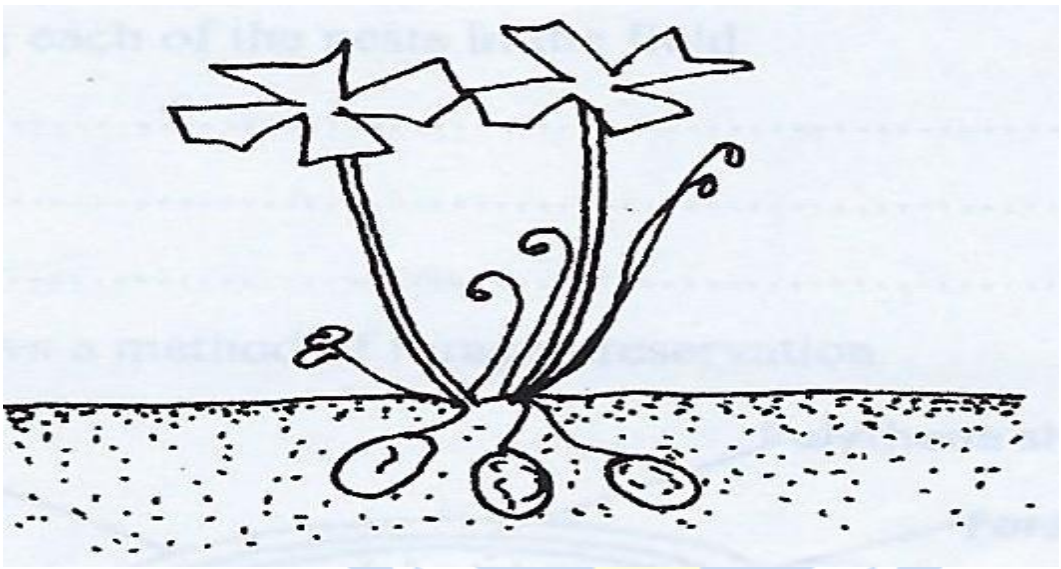
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SECTION B (20 marks)

12. Study the diagram below carefully and answer the questions that follows.



(a)Identify the weed above. (1 mark)

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b) State two factors which contributes to the competitive ability of the above weed. (2 marks)

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c) State two harmful affects of the weed named in (a) above. (2 marks)

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d) Name one basis in which weed above is classified (1 mark)

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13. Two maize pests are shown in the diagram below. Study them and answer the questions that follow.



a) Identify the pests in the diagrams labelled X and Y. (2 marks)

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b).At what stage of maize production does each pest damage the crop. (2 marks)

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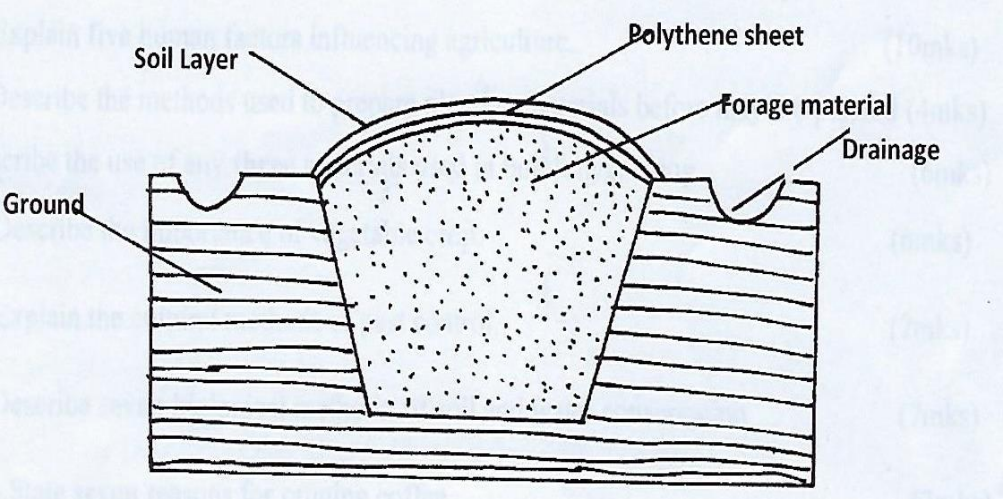
c). Give two ways of controlling each of the pests in the field. (2 marks)

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14. (a) The diagram below shows a method of forage preservation. (1 mark)



a.), Identify the structure above. (1 mark)

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(b).State the form in which the forage is preserved as illustrated above. (1 mark)

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(c), Name two other method of forage preservation apart from above. (2 marks)

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15.(i) Define the following terms as used in agroforestry

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a) coppicing (1 mark)

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b).Pollarding (1 mark)

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ii). Name any two forms of agroforestry (2 marks)

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SECTION C. 40 MARKS

Answer any two questions from this section in the spaces provided after question 15.

16a) Explain five human factors influencing agriculture. (10 marks)

b). Describe the methods used to prepare planting materials before they are planted. (4 marks)

c) Describe the use of any three materials used in budding/grafting. (6 marks)

17a) Describe the importance of vegetable crop. (6 marks)

(b).Explain the cultural methods of pest control. (7 marks)

(c). Describe seven biological methods of soil and water conservation. (7 marks)

1 8(a) State seven reasons for pruning coffee . (7 marks)

(b) Highlight seven effects of land fragmentation (7 marks)

(c)Explain the basic concepts of economics. (6 marks)

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