

NAME \_\_\_\_\_

INDEX NO. \_\_\_\_\_

SCHOOL \_\_\_\_\_

SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

**443/1**

**AGRICULTURE**

**PAPER 1**

**July, 2017**

**TIME: 2 HOURS**

**KITUI COUNTY MOCK**  
**END OF TERM II FORM FOUR EXAMINATION, 2017**  
**Kenya Certificate of Secondary Education (K.C.S.E)**

443/1  
AGRICULTURE  
PAPER 1  
TIME: 2 HOURS

**INSTRUCTIONS TO CANDIDATES**

- Write your name and index number in the spaces provided above.
- Sign and write the date of the examination in the spaces provided above.
- This paper consists of three sections: A, B and C.
- Answer **all** the questions in section **A** and **B** and **any two** questions from section **C**.
- All answers must be written in the spaces provided in this booklet.
- This paper consists of **12** printed pages.
- Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing

**FOR OFFICIAL USE ONLY**

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1 - 17	30	
B	18 - 21	20	
C		20	
		20	
	<b>TOTAL SCORE</b>	<b>90</b>	

**SECTION A (30 MARKS)**

Answer **ALL** questions in this section.

1. Give **four** methods of applying fertilizers to crops. (2 marks)

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2. State **four** beneficial biotic factors that influence agriculture. (2 marks)

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3. Give **four** branches of Agriculture. (2 marks)

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4. State **four** advantages of co-operative land tenure system. (2 marks)

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5. State **four** benefits of organic mulch in crop production. (2 marks)

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6. State **four** conditions under which shifting cultivation is practiced. (2 marks)

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7. Give **four** effects of mass wasting. (2 marks)

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8. Give **four** factors that affect the rooting of cuttings. (2 marks)

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9. Name **four** details that are included in a farm marketing record. (2 marks)

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10. Give **four** examples of product-product relationships in the management of agricultural enterprises. (2 marks)

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11. State **three** entries that are made in a journal. (1½ marks)

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12. Give **two** reasons for cutting back pyrethrum. (1 mark)

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13. State **three** parameters used to indicate national development.

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14. State **four** symptoms of viral diseases in crops.

(2 marks)

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15. Give **four** reasons for draining land as part of land reclamation.

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16. State **two** reasons for topping a pasture.

(1 mark)

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17. State **two** advantages of metal pipes over plastic pipes in piping water in the farm.

(1 mark)

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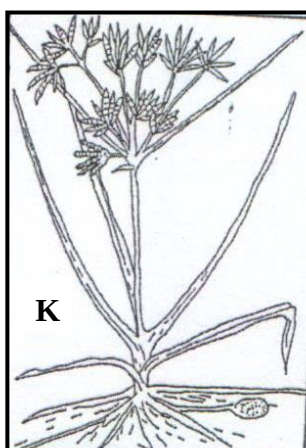
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**SECTION A (30 MARKS)**

Answer **ALL** questions in this section.

18. Study the following weeds and answer questions that follow.



a) Give the identity of weeds J and K. (2 marks)

J \_\_\_\_\_

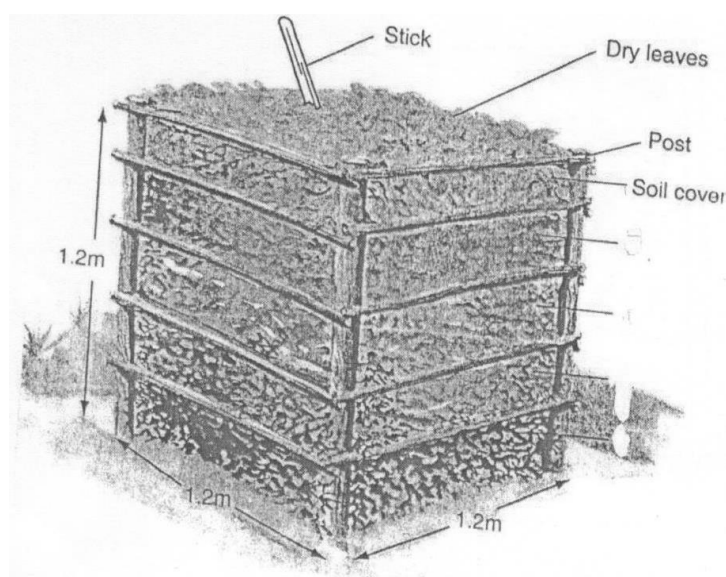
K \_\_\_\_\_

b) What makes weed K difficult to control? (1 mark)

c) Give the economic importance of weed J. (1 mark)

d) State **one** reason that makes weeds excellently adapted to various environments. (1 mark)

19. Study the diagram below of a method of compost making and answer the questions that follow.



a) Identify the methods of compost making. (1 mark)

b) State **four** factors to consider when siting the structure.

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c) What is the function of the following materials in preparation of compost manure?

i) Top soil (1 mark)

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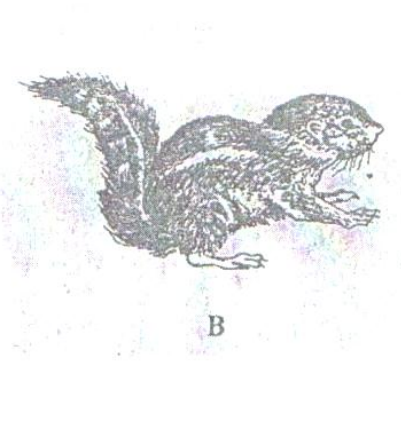
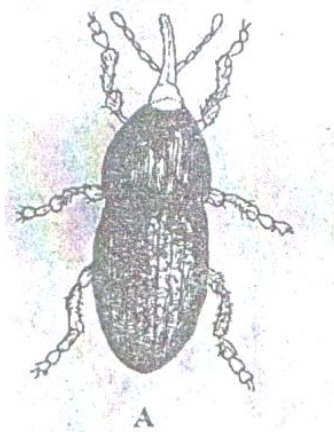
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ii) Wood ash (1 mark)

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



a) Identify the pests in the diagram labeled A and B. (1 mark)

A \_\_\_\_\_

B \_\_\_\_\_

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

A \_\_\_\_\_

B \_\_\_\_\_

c) Give **one** way of controlling each of the pests in the field. (2 marks)

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21. The diagram below represents a vegetative material used to prepare a certain crop.

Study them and answer the questions that follow.



- i) Give the name of the material illustrated above. (1 mark)
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- ii) Give the name of the preparation done on the material to make it ready for planting. (1 mark)
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- iii) State **three** advantages of carrying out the practice in (ii) above before planting. (3 marks)
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### **SECTION C (40 MARKS)**

*Answer ANY TWO questions from this section in the spaces provided*

22. a) Describe the growing of dry bean seeds under the following subheadings. (3 marks)
- Selection and preparation of planting materials (3 marks)
  - Planting (4 marks)
  - Weeding (3 marks)
- b) Describe the environmental conditions that may lead to low crop yields. (10 marks)
23. a) Explain **six** factors considered in designing a crop rotation programme. (6 marks)
- b) Explain the factors that influence the type of irrigation to be used in a farm. (8 marks)
- c) Explain **six** post-harvest practices carried out on production of maize. (6 marks)
24. a) Explain **five** advantages of budgeting in farming. (10 marks)
- b) Explain **five** various types of risks and uncertainties. (5 marks)
- c) Describe the importance of pruning perennial crops. (5 marks)





