**NAME………………………………………………..INDEX NO.…………………**

**SCHOOL …………………………………..……… CAND. SIGN………………..**

**443/1**

**AGRICULTURE**

**PAPER 1**

**JULY/AUGUST 2014**

**Time: 2 HOURS**

**KAKAMEGA COUNTY JOINT EVALUATION TEST–2014**

**Kenya Certificate of Secondary Education**

**INSTRUCTION TO CANDIDATES**

* This paper consists of **THREE** sections: **A, B** and **C**.
* Answer **ALL** questions in section **A**.and**B**
* **ANY** Two questions from section **C**.

|  |  |  |
| --- | --- | --- |
| **SECTION** | **MARKS** | **CAND. SCORE** |
| A | 30  |  |
| B | 20  |  |
| C | 40  |  |
| **TOTAL SCORE** | **90**  |  |

**SECTION A (30MKS)**

1. Give **two** characteristics of plantation farming. (1mk)

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1. Name **two** chemical processes of weathering. (1mk)

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1. State **two** advantages of organic farming . (1mk)

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1. Outline **three** effects of soil organisms which benefit plant growth. (11/2mks)

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1. Give **two** ways in which organic mulch help to conserve water in the soil. (1mk)

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1. Give **two** types of labour records. (1mk)

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1. Outline **four** ways in which land consolidation helps to improve farm management.(2mk)

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1. List **six** factors that should be considered when grading a crop produce. (3mks)

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1. State **four** importance of raising tomato seedlings in a nursery bed. (2mks)

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1. Give **four** ways of controlling weeds in a field of maize. (2mks)

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1. State **three** reasons for top dressing pasture. ( 11/2mks)

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1. Give **four** reasons for training crops as a field practice . ( 2mks)

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1. State **three** activities the farmer carries out on a store before storing grains. (11/2mks)

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1. Give **four** desirable characteristics of certified seeds. (2mks)

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1. (a) Outline **two** characteristics of nitrogenous fertilizers. (1mk)

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(b) Give the forms in which the following elements are available to plants: (1mk)

 (i) Phosphorous \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 (ii) Potassium\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. List **three** general symptoms of viral diseases in crops. (11/2mks)

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1. Give **four** factors that influence the choice of tools and equipment used in Primary cultivation. (2mks)

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1. State **four** factors that contribute to competitive ability of weeds. (2mks)

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**SECTION B. (20MKS)**

1. (a) Diagram below shows an adult crop pest which in its larval stage causes the middle shoots of sorghum to wither as shown in the diagram.
2. Identify the pest. (1/2mks)

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1. Give **two** ways of controlling the pest. (2mks)

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(b) Diagrams E,Fand G below shows the panicles of three sorghum varieties growing side by side.

1. Which one of the **three**varieties of sorghum is least likely to be damaged by the birds. (1/2mks)

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1. Give a reason for your answer in (i) above. (1mk)

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1. State **two** methods that are used in controlling birds in a field of sorghum.(2mks)

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1. The diagram below shows a method of bringing tea into bearing. Use it to answer the questions that follow

1. Identify the specific method shown in the diagram. (1/2mk)

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1. Describe the procedure of carrying out the above in a tea bush. (4mks)

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1. Use the diagrams below to answer the questions that follow
2. Identify each of the soil structures labeled K and L (1/2mks)

K\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

L\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Give **one** place where the soil structure labeled L can be found. (1mk)

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1. State **three** ways in which a farmer can improve the structure of water logged clay soil. (3mks)

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1. The diagram below illustrates a vegetative propagation method. Study it and answer the questions that follow.
2. Name the method used in preparing the above planting material. (1/2 mk)

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1. Name the crop propagated using the above method (1mk)

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1. Name the parts labeled X and Y (2mks)

X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Y\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. State one environmental condition necessary for the success of the method named in (a) above. (1mk)

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 **SECTION C. (40MKS)**

1. (a) Describe the production of Kales under the following sub headings:-
2. Seedbed preparation (3mks)

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1. Transplanting (5mks)

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1. Field practices (4mks)

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 (b) Explain eight cultural control measures of diseases in crop production. (8mks)

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24(a) Below is a graphical representation of the law of diminishing returns. Explain what happens in each of the zones marked I, II and III in relation to output. (3mks)

 Zone marked I\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Zone marked II\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Zone marked III\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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(b) Which of the **three** is a rational zone of production? (1mk)

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(c) State any **six** precautions a potato farmer would take to minimize risks in the production of potatoes. (6mks)

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1. Explain **ten** factors to consider when selecting a farm enterprise (10mks)

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1. (a)Give **six** precautions observed in pruning mature tea. (6mks)

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(b) Describe the procedure followed when collecting a soil sample from the field for

testing in the laboratory. (6mks)

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 (c) Give **four** desirable characteristics of materials used in the preparation of compost

manure. (4mks)

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1. Outline **four** advantages of intercropping crops. (4mks)

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