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**AGRICULTURE**

**443**

**FORM TWO**

**TIME: 2HOURS**

**Name………………………………………………………………. Class………. AdmNO……….**

**SECTION A (30MKS)**

1. What do you understand from the term shifting cultivation? (1mk)

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1. Define the following terms: -
2. Apiculture. 1/2mk

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1. Arable farming. 1/2mk

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1. State four biotic factors that affect agriculture (2mks)

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1. State four components of soil. (2mks)

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1. When is opportunity cost said to be zero. (2mks)

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1. Name two types of labour records. (2mks)

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1. Define the following terms as used in livestock production (2mks)
2. Billy

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1. Capon

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1. What is the function of the following layers while making a compost manure (2mks)
2. Ash

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1. Top soil

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1. State three cultivation practices that can lead to water pollution (3mks)

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1. State three tertiary operations carried out to suit production of certain crops(3mks)

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1. State three types of layering using in Kenya propagation crops (3mks)

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1. Differentiate between intercropping (2mks)
2. Intercropping
3. mixed cropping
4. Outline three symptoms of potassium deficiency in crops (3mks)
5. State four ways used to apply fertilizer in a field of crops.

**SECTION B (20MKS)**

1. (a) Below is a diagram of a 50 kg fertilizer bag.

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1. Identify the type of the fertilizer. 1mk
2. Find the percentage of K2O in the fertilizer. 1mk
3. A farmer was advised to apply 150kg CAN/ha, while top dressing the what crop CAN contains 21%N. Calculate the amount nitrogen applied (3mks)
4. Below are diagrams of farm tools.

 P

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1. (i) Identify the tool. (1mk)

(ii) Name the part labeled P. (1mk)

 (b)Give three reasons for maintaining the tool. (3mks)

1. Study the diagram below carefully.

 M

1. Identify the above farm structure. 1mk
2. Give the function of the part labeled M. 1mk
3. State three preparations carried out in the structure before storing maize grains. 3mks
4. Below is a diagram of a tertiary operation in crop production.
5. **(i) Identify the above farm structure. 1mk**

(ii)State two roles of the structure. 2mks

1. Give two tools used to construct the structure. 2mks.

**SECTION: CANSWER ANY TWO QUESTIONS 40MKS)**

1. (i)State and explain five importance of crop rotation (10mks)

 (ii0Explain five importance why a farmer is advised to drain water from a piece of land (10mks)

20 (a) Discuss the production the production of cabbage under the following sub-topics

-Ecological requirements (3mks)

-Nursery Establishment (5mks)

-Field management (6mks)

1. State six characteristics of fertile soil (6mks)
2. (a) Explain ten characteristics of a dairy heifer. 10mks

 (b)(i) Give two types of inventory records.2mks

 (II) Explain eight uses of farm records. 8mks