**NAME: …………………………………………..…………………………. DATE: ……………………**

**SCHOOL…………………………………………………………………….……..ADM NO:.…………….... CANDIDATE’S SIGNATURE: …………..…**

**443**

**AGRICULTURE**

**FORM ONE**

**TIME: 2 HOURS**

**THIRD TRIAL 2017**

***Kenya Certificate of Secondary Education***

**INSTRUCTIONS TO CANDIDATES**

1. **Write your name and admission number in the spaces provided above.**
2. **Answer ALL the questions in the spaces provided.**

**FOR EXAMINERS USE ONLY**

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| **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| **1 – 19** | **70** |  |

**QUESTIONS**

1. State three biotic factors that affect aquaculture (3 mks)

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1. Give four beneficial of soil micro organism to crops (4 mks)

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1. Outline four ways in which high temperature affects agricultural production in Kenya (4 mks)

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1. Distinguish between soil structure and soil texture (2 mks)

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1. Name two mechanical ways of separating soil particles according to size during soil analysis (2 mks)

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1. Name two processes of rock weathering other than biological weathering (2 mks)

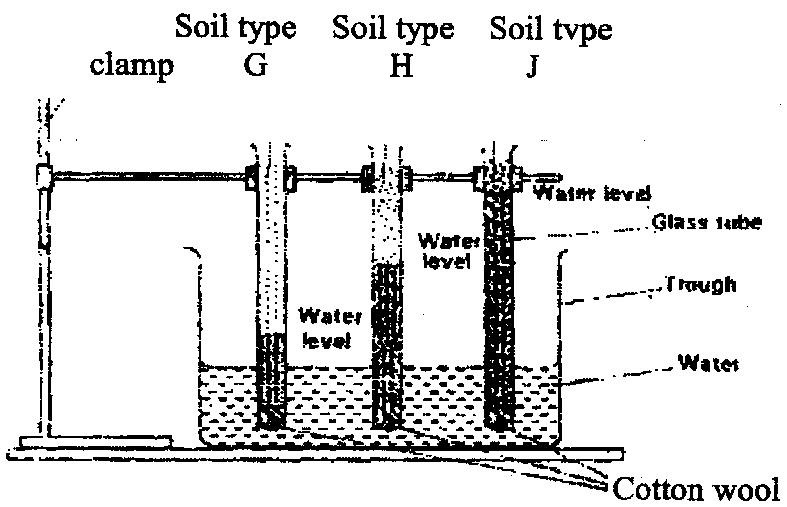
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1. List two aspects of biological rock weathering (2 mks)

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1. The diagram below shows an experiment set up using soil types G, H and J and observations made after 24 hours. Study the diagram and answer the questions that follow.
2. What is the experiment represented above designed to study (1 mk)

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1. Name the three soil types G, H and J. (3 mks)

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1. What is the characteristic texture of soil types G and J (2 mks)

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1. State how a farmer would improve the structure of soil type G. (1 mk)

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1. State three beneficial of good soil structure (3 mks)

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1. List four environmental structure that affect crop distribution in Kenya (4 mks)

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1. Give three reasons why soil is important to crops (3 mks)

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1. Give four conditions that favour shifting cultivation (4 mks)

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1. Name four soil constituents (4 mks)

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1. Define the term soil profile (1 mk)

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1. What is a transitional zone as applied is soil profile (1 mk)

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1. Give two characteristics of sub soil as a zone of soil profile (2 mks)

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1. Outline four importance of ranching in arid and semi arid areas (4 mks)

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2. Differentiate between agricultural engineering and agricultural economics (2 mks)

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1. In each of the above give one positive significance to an agricultural production (2 mks)

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1. Give four advantages of mixed farming (4 mks)

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1. List three factors that contribute to soil formation (3 mks)

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1. Outline three ways level of education influences agricultural development in Kenya (3 mks)

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1. Give four examples of livestock production as a branch of agriculture practiced in Kenya (4 mks)

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