

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

QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
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1 – 19	70	
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QUESTIONS

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

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

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

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

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

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6.
a. Name two processes of rock weathering other than biological weathering (2 mks)

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b. List two aspects of biological rock weathering

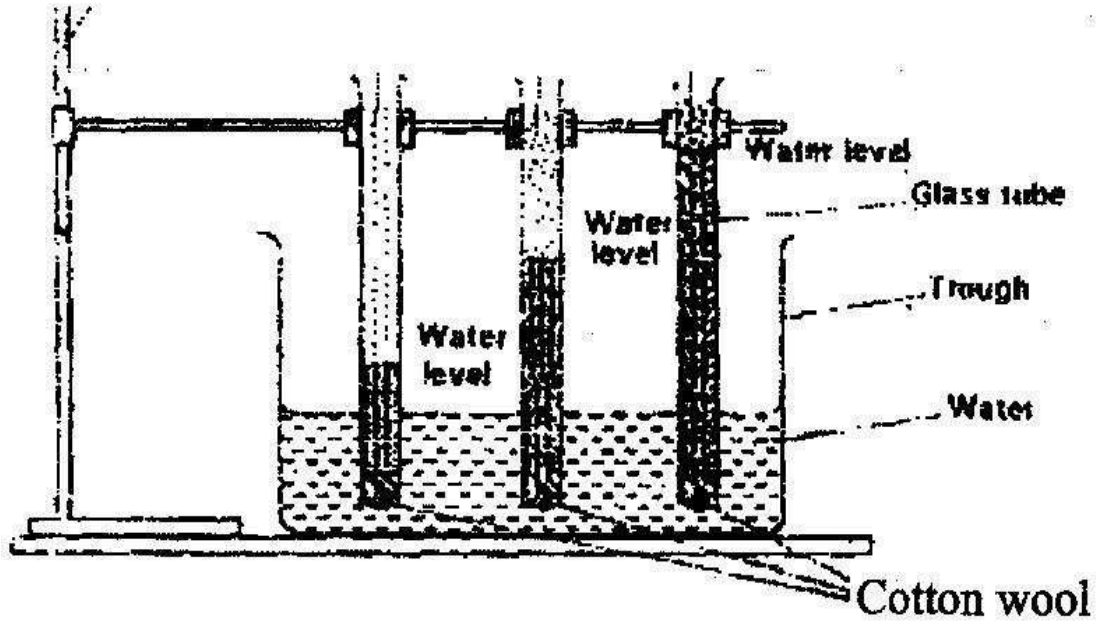
(2 mks)

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Soil type Soil type Soil type

7. 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.



a. What is the experiment represented above designed to study (1 mk)

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

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c. What is the characteristic texture of soil types G and J

(2 mks)

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

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

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

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

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

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12. Name four soil constituents

(4 mks)

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13.

a. Define the term soil profile (1 mk)

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

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

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

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15.

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

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

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

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

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

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

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