**NAME…………………………………………….ADMISSION NUMBER………………………**

**443**

**AGRICULTURE**

**TIME:2 HOURS**

**JULY/AUGUST 2017**

**MWAKICAN FORM 2 JOINT EXAMINATION SECOND TERM 2017**

**AGRICULTURE**

**JULY /AUGUST 2017**

**TIME 2HOURS**

**INSTRUCTIONS TO CANDIDATES.**

* *Write your name and admission number in the spaces provided.*
* *Write all the answers in English.*
* *Answer all questions in the spaces provided.*
* *This question paper consists of three sections A, B and C.*
* *Answer all the questions in sections A and B any two questions from section c.*
* *Answers should be written in the spaces provided.*

**For Examiner’s use only**

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| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum score** | **Candidate,s score** |
| **A** | 1-24 | 30 |  |
| **B** | 25-28 | 20 |  |
| **C** |  | 20 |  |
|  | 20 |  |
| Total score | 90 |  |

**This paper consists of 11 printed pages.**

Candidates should check the question paper to ascertain that all the pages are printed as indicate and no questions are missing.

**SECTION A: ATTEMEPT ALL QUESTIONS**

1. What is Agriculture? 1mk

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1. Give four branches of Agriculture . 2mks

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1. State three sub-branches of Horticulture. 1½mks

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1. What is the meaning of the following terms.
2. Apiculture 1mk

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1. Aquaculture 1mk

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1. State four factors which determine the choice of farming system. 2mks

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1. Give three roles of Agriculture to the economy of Kenya. 1½mks

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1. Give four human factors which influence Agricultural production. 2mks

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1. State four characteristics of dairy breeds of cattle. 2mks

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1. Give four aspects of rainfall which influence Agricultural production. 2mks

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1. Give three agents of Physical weathering.1½mks …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………
2. State three reasons for preparing the land. 1½mks

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1. State two types of pumps. 1mk

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1. Give three advantages of plastic pipes. 1½mks

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1. State three types of surface irrigation. 1½mks

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1. Give two forms in which Nitrogen is available to plants. 1mk

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1. Give the three fertilizer nutrients. 1½mks

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1. State three factors to consider when selecting planting materials. 1½mks

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1. What is seed dormancy? 1mk

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1. Differentiate between over sowing and under sowing. 2mks ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**SECTION B:ATTEMPT ALL TH QUESTIONS**

1. Study the diagram below and answer the questions which follows.



1. Identify the diagram above. 1mk

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1. Label the parts labeled E,F & G. 1½mks

E…………………………………………………………………………………………….

F………………………………………………………………………………………………

G……………………………………………………………………………………………..

1. Give three characteristics of the part labeled E. 1½mks

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1. Study the following farm tool carefully and answer the questions below

 

1. Identify the tools. 2mks

A………………………………………………….

B…………………………………………………….

C…………………………………………………………

D……………………………………………………………….

1. What is the functional difference between tool A and C. 1mk

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1. Give two maintenance practices of tool B. 1mk

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1. The diagram below shows a method of soil sampling .Study it carefully and answer the questions that follow.

 

1. Name the method shown above. ½mk

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1. Apart form the above named method name the other method one can use to perform soil sampling.1mk ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………
2. State three information that should be provided on the soil sample package before it is taken to the laboratory. 1½mks

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1. Give two reasons as to why soil is tested . 1mk

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1. Study the following farming practices and answer the questions below.



1. Identify the practices J,K and L. 1½mks

J…………………………………………………………………………………

K……………………………………………………………………………….

L……………………………………………………………………………….

1. Give three advantages of carrying out the practice J in tomato production. 1½mks

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1. Give four reasons why pruning is done in coffee. 2mks

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**SECTION C: ATTEMPT TWO QUESTIONS ONLY**.

1. a) Describe the production of tomatoes under the following sub headings.
2. Ecological requirement. 3mks

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1. Field management practices. 6mks

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1. Harvesting. 2mks

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b) State the effect of excess Nitrogen in tomato production. 3mks

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c) Explain the factors determining the number of secondary cultivation. 6mkks

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1. a) State the qualities of a good grain store. 5mks

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b) Give five reasons why livestock should be kept healthy. 5mks

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c)Outline the importance of using organic manure when growing crops. 5mks

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d) Explain the factors to consider when siting a nursery bed. 5mks

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1. a) State five effects of wind in crop production. 5mk

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b) Give five reasons s to why Agriculture is a science. 5mks

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c) Explain the factors to be considered when determine the type of irrigation to use. 5mks

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d)State the importance of drainage in Agricultural production. 5mks

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