**443**

**AGRICULTURE**

**MWACKAN EXAM FORM 2**

**END OF TERM 1**

**2016**

**INSTRUCTIONS**

* Write your name in the space provided above
* This paper consult of three sections A.B,C
* Answer all the questions in section A and B
* Answer all the questions in section C

|  |  |  |
| --- | --- | --- |
| **SECTION**  |  |  |
| A | 1-17 | 30 MKS |
| B | 18-22 | 30MKS |
| C | 23-24 | 40MKS |

 TOTAL 100MKS

**SECTION A**

**30MKS**

1. State the meaning of the following terms as used in Agriculture
2. Entomology *1mk*
3. Floriculture *1mk*
4. Give **four** symptoms of potassium deficiency in plants *2mks*

*4× ½ =2mks*

1. State **four** disadvantages of shifting cultivation 4*× ½ mks*

*2mks*

1. What is Agroforestry *1mk*
2. List **four** factors influencing soil formation *2mks*
3. Name **three** aspect of light that affect crop production 3*× ½ =1 ½ mks*
4. State **two** forms in which Nitrogen can be absorbed by a plant *1mk*
5. List **three** disadvantages of row planting *1 ½ mk*
6. Give **four** general characteristics of Romney Marsh Dual purpose breed of sheep.

*4× ½ mks*

1. State the function of the following farm tools and equipments
2. Robbot plane *1mk*
3. Strip cup *1mk*
4. Trocar and canula *1mk*
5. State **two** instances where opportunity cost is said to be zero *1mk*
6. State **four** importances of primary cultivation *2mks*
7. Mention **three** light breeds of poultry *1 ½ mks*
8. Give **four** reason why burning of bushes as a method of land clearing should be discouraged *2mks*
9. Name **three** types of surface irrigation *1 ½ mks*
10. Distinguish between a seedling bed and a nursery bed *1mk*
11. Give reasons for carrying out the following operations in crop production
12. Earthing up *1mk*
13. Leveling *1mk*
14. Rolling *1mk*

**SECTION B 30 MKS**

1. Study the following diagrams of soil sampling and answer the questions that follows.



 A B

1. Identify the sampling method labeled

A *1mk*

B *1mk*

1. Describe the procedures followed during soil sampling process 3mks
2. State the information contained in a composite sample of soil before being taken to the laboratory *3mks*
3. The diagram below illustrate an investigation on a property of soil using soil samples labeled J,K and L.



 J K L

Dry soil

1. If the level of water shown in the diagram were observed after 3 hours, name these property of soil being investigated *1mk*
2. What is this relationship between soil property named in (a) above and the size of the soil particles *1mk*
3. Which soli sample would be suitable for growing paddy rice *1mk*

1. Study the diagram below and answer the questions that follows:



Crop being fertilized

Fertilizer particles

1. Identify the method of fertilizer application shown above *1mk*
2. Name any other **four** methods of fertilizer application apart from the one demonstrated above *4mk*
3. (a)Define the term drainage *1mk*

(b)State **four** importance of drainage as a land reclamation method  *4mk*

(c)Give **four** methods of drainage *4mks*

1. (a) Identify the method of irrigation drawn below.1mks



Bottle of water

(b)Give advantages of the method of irrigation drawn above *4mks*

**SECTION C**

1. (a)State and explain various factors determining spacing of crops 7×2=14 mks

(b)Explain factors considered when selecting a nursery site *6mks*

1. (a)State and explain various practices carried out in the nursery while the seedlings are growing *7×2=14 mks*

(b)Discuss various roles of agriculture to our economy *6mks*