**NAME…………………………………………………….ADM……………………….**

**CLASS…………………………………………………….DATE……………………..**

**AGRICULTURE**

**FORM 3**

**TERM 1 2023**

**TIME: 2 HOURS.**

**INSTRUCTIONS;**

* Write your name, admission number, class and date in the spaces above.
* The paper has three sections; **A, B** and **C**
* Answer **all the questions** in section **A** and **B** and any other **two** questions in section **C** in the spaces provided.
* The paper consists of **10** printed pages.

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum score** | **Candidate’s score** |
| **A** | **1-16** | **30** |  |
| **B** | **17-20** | **20** |  |
| **C** | **21** | **20** |  |
| **22** | **20** |  |
| **23** | **20** |  |
| **Total score** |  | **90** |  |

**SECTON A (30 MARKS)**

1. State **fou**r reasons why agriculture is an art 2marks

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1. Define the following terms; 1mark
2. Arable farming

………………………………………………………………………………………….

1. Organic farming

………………………………………………………………………………………………………………………………………………………………………………….

1. State **two** ways in which agriculture contributes to the industrial development 2 marks

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1. State **fou**r conditions under which shifting cultivation is practiced 2marks

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1. State **four** factors that influence spacing of crops 2marks

………………………………………………………………………………………………..……………………………………………………………………………………………………………………………………………………………………………………..………………………………………………………………………………

1. State the functional difference between a cross-cut saw and a rip saw 1mark

………………………………………………………………………………………………..……………………………………………………………………………………………

1. Name the part used for vegetative propagation of each of the following plants 2marks
2. Cassava……………………………………
3. Sisal…………………………………………..
4. Pyrethrum…………………………………..
5. Pineapples……………………………………
6. State **four** aspects of rainfall that influence agricultural production 2marks

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1. State **four** reasons why soil is important to crops 2marks

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1. Outline **four** harmful effects of strong wind in agricultural production 2 marks

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1. State **four** characteristics that make a crop suitable for green manure 2 marks

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1. Give **four** methods of breaking seed dormancy 2 marks.

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1. Define the following terms as used in crop production 1mark
2. Seed bed

…………………………………………………………………………………………………………………………………………………………………………………

1. Nursery bed

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1. State **four** causes of livestock diseases 2 marks

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1. Give **four** constituents of soil 2 marks

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1. Describe the following terms as used in livestock production 3 marks
2. Calf…………………………………………………………………………………
3. Bull …………………………………………………………………………………
4. Piglet ……………………………………………………………………………….
5. Cock …………………………………………………………………………….
6. Gilt ………………………………………………………………………………
7. Boar ………………………………………………………………………………

**SECTIONB (20 MARKS)**

***Answer all the questions in this section***

1. The diagram below shows an external parasite. Study it carefully and answer the questions that follow



1. Identify the parasite ………………………………….. 1 mark
2. State three harmful effects of the parasite to livestock 3 marks

………………………………………………………………………………………………..………………………………………………………………………………………………………………………………………………………………………………

1. Give any **one mechanical** control measure of the above parasite 1 mark

………………………………………………………………………………………

1. The diagram below shows a field management practice in tomatoes. Study it and answer the questions that follow



1. Identify the practice ………………………………………… 1mark
2. State three reasons for carrying out the practice above 3 marks

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1. Name **one** disease that attack cabbages in the field. 1mark

………………………………………………………………………………………………………………………………………………………………………………………………

1. Below is a table showing pH values of different soil samples. Study it and answer the questions that follow

|  |  |
| --- | --- |
| Soil sample | pH value |
| S1 | 3 |
| S2 | 4 |
| S3 | 5 |
| S4 | 6 |
| S5 | 7 |
| S6 | 8 |
| S7 | 9 |
| S8 | 10 |

1. Which soil sample has the highest acidity…………………….. 1 mark
2. State two ways in which the pH of soil sample **S8** can be lowered 2 marks

…………………………………………………………………………

1. Name two methods of soil sampling 2marks

…………………………………………………………………………………………

………………………………………………………………………………………

1. Below is a format of a farm record;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date  | Disease symptom | Livestock affected | Drug used | Cost of treatment  | Remarks  |
|  |  |  |  |  |  |

1. Name the farm record illustrated above 1 mark

……………………………………………………………………………..

1. Give two uses of a farm record shown above 2 marks

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1. Apart from the above record, give other **two** records kept by the farmer 2 marks

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**SECTION C ( 40 MARKS)**

***Answer any two questions in this section***

1. a) Describe transplanting of a vegetable seedling 8 marks

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b) Explain **seven** nursery management practices 7 marks

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1. State **five** importance of crop rotation 5 marks

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1. a) State **five** reasons for keeping livestock healthy 5 marks

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b) State **five** importance of water in animal’s diet 5 marks

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c) Explain **five** predisposing factors to livestock diseases 10 marks

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1. a) Explain **five** ways through which soil loses fertility 10 marks

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 b) Describe water treatment using the chemical treatment system 10 marks

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