**AGRICULTURE FORM 2**

**OPENER TERM 1 2023 marking scheme**

1. Give four importance of land preparation in crop production (4mks)

*To kill weeds*

*To incorporate manure and other organic matter into the soil*

*To aerate the soil*

*To encourage the penetration of roots in the soil*

*To encourage water infiltration into the soil*

2. Give five characteristics of fertile soil (4mks)

*Good depth*

*Proper drainage*

*Good water holding capacity*

*Adequate nutrients supply*

*Correct soil PH*

3. Mention four importance of drainage as a land reclamation method (4mks)

*To increase soil aeration*

*To increase soil volume*

*Ta raise soil temperature*

*To reduce soil erosion*

*To remove toxic substances*

4. Give three minimum tillage practices. (3mks)

Application of herbicides in controlling weeds

*Use of mulch on the soil surface*

*Timing cultivation*

*Establishing a cover crop on the field*

*Uprooting or slashing weeds in perennial crop*

5. Give four importance of treating water (4mks)

*To kill diseases causing micro – organism ie cholera*

*To remove chemical impurities such as excess fluoride*

*To remove smell and bad taste*

*The remove sediments of solid particles such as soil*

6. Differentiate between a garden trowel and a masons trowel (2mks)

*A garden trowel is a grden tool used for lifting seedlings from the nurserywhile a masons trowel is a masonry tool used to place mortal between construction stones and bricks*

**7.State two effects of HIV/AIDS on agriculture (2mks)**

*Shortage of farm labour*

*Lowers food supply*

*Low income*

8. Give the 3 fields of horticultural farming and describe what they entail (3mks)

*Floriculture- involves growing of flowers*

*Olericulture – growing of vegetables ie cabbage*

*Pomology –growing of fruits ie mangoes*

9. State **four** categories of farm tools and equipment (4mks)

* **Livestock production tools and equipments**
* **Garden tools and equipments**
* **Masonry tools and equipments**
* **Workshop tools and equipments**
* **Plumbing tools and equipments**

10. Name the breed of camel that is used for provision of

i) Quicker mode of transport and is & better adapted for arid conditions. **1mk**

**Dromedary**

ii) Give two reasons why this species of camel is well adapted to North part of Kenya.**2mks**

* thin hide to withstand high temperature
* presence of hump

11. Name the major characteristics of indigenous cattle breeds. **4mks**

they have humps which stores fat, which is broken down to energy and water in times of starvation. ii. They are fairly tolerant to high temperatures due to the presence of dewlap and thick hides.

iii. They have high tolerance to tropical diseases such as trypanosomiasis.

iv. They have slow growth rate leading to late maturity. Heifers are served at the age of 2-3 years.

v. They have low production of both meat and milk due to inheritance of poor characteristics.

vi. They can walk for long distances in search of food and water. vii. They can stay for long periods without food and water without seriously affecting their performance and body condition.

viii. They have a long calving interval of more than one year.

12. Name the exotic cattle with **2mks**

i) Highest butter fat content **jersey**

ii) Lowest butter fat content **Friesian**

13. List any four types of records a farmer should keep. **4mks**

Health records

Labour records

Feeding

inventory

14. State four reasons for keeping health records in livestock production **4mks** Important during selection and culling of animals on health grounds. They help in calculating Cost of treatment and shows course of action to be taken in maintenance of health.

15. State the conditions under which the opportunity cost is Zero in a

* + . When there is no alternative.
  + When goods are offered for free.
  + When resources are not limited.**3mks**