**AGRICULTURE**

**FORM 1**

**END OF TERM 3 2022**

**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.List four factors that determines the type of irrigation used in crop *production*** *(4mks)*

*Capital availability*

*Topography of the land*

*Water availability*

*Type of soil*

*Types of soil to be irrigated*

**3.Give five characteristics of fertile soil (5mks)**

*Good depth*

*Proper drainage*

*Good water holding capacity*

*Adequate nutrients supply*

*Correct soil PH*

**4. Mention five importance of drainage as a land reclamation method (5mks)**

*To increase soil aeration*

*To increase soil volume*

*Ta raise soil temperature*

*To reduce soil erosion*

*To remove toxic substances*

**5.List four types of livestock farming practices (4mks)**

*Pastrolism*

*Fish farming*

*Bee keeping (apiculture)*

*Poutry keeping*

**6.list the three types of a spanner and give the maintenance of the spanners (5mks)**

*Ring spanner, open –ended spanner and adjustable spanner*

*ii)mainteinance-applying oil on the metallic parts to prevent rusting*

**7.Define the term minimum tillage and give five minimum tillage practices (6mks**)

*Minimum tillage is the application of a combination of farming practices aimed at least disturbance of soil*

ii)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*

**8.List four factors that influence soil formation (4mks)**

*Time*

*Parent rock materials*

*Topography*

*Climate*

**9.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*

**10.What are some of the agricultural practices that pollute water?(3mks)**

*Uses of inorganic fertilizers*

*Use of pesticides*

*Poor cultivation practices ie over cultivation*

**11.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*

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

*Shortage of farm labour*

*Lowers food supply*

*Low income*

**13.Give the uses and maintenance of the following tools**

a)Wheel barrow (2mks)

*wheel barrow is used in transportation of heavy loads ie the manure*

*mainteinance-the moving parts should be lubricated*

b)Spoke shave (2mks)

*spoke shave used to smoothens the wood surfaces*

*the loose nuts and bolts should be tighened*

c)milking churn (2mks)

*used to holding milk and milk transportation*

*maintainenance – thorough cleaning and sterilized after every use*

**14.State the reasons for proper care and maintenance of farm tools and equipments (4mks)**

*To increase durability of tools*

*To reduce the replacement cost*

*To increase efficiency of tools*

*To avoid injury to the user*

*To avoid damage to the tools*

**15.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*

**16. The diagram below shows some workshop tools. Study them and answer the questions that follow**

** A B**

**(a) Identify the tools A and B (2mks)**

***A****pipe wrench*

***B*** *ring spanner*

**(b) State the correct use of the tool labeled A (2mks)**

*For holding tightening and loosening metallic pipes*

(c) Explain **one** maintenance practice carried out on the tool A(1mk)

*The tool should be cleaned after use*

**17. State four catergories of farm tools and equipment(4mks**

* *Workshop tools and equipment*
* *Gardening /Garden tools and equipment*
* *Livestock production tools*
* *Plumbing tools and equipment*
* *Masonry tools and equipment*