

OPENER EXAMINATION YEAR 2021 TERM 2

NAME:.....CLASS:.....ADM NO:.....

**AGRICULTURE MARKING SCHEME
FORM 1**

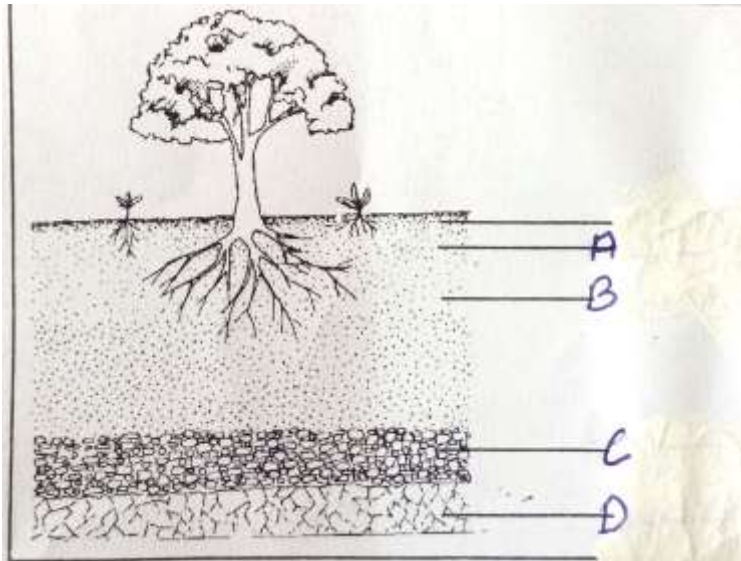
70MKS

INSTRUCTIONS

Answer all the questions in the spaces provided.

1. Differentiate between floriculture and olericulture. (2mks)
 - ***Olericulture:- is the growing of vegetables while floriculture is the growing of flowers.***
2. State three characteristics of large scale farming system. (3mks)
 - ***It involves the use of large tracts of land***
 - ***Requires heavy capital investment.***
 - ***Requires highly skilled labour.***
 - ***Requires high level of management.***
 - ***Mainly carried out for commercial purpose.***
3. List three methods of farming. (3mks)
 - ***Mixed farming***
 - ***Nomadic pastoralism***
 - ***Shifting cultivation***
 - ***Organic farming***
 - ***Agroforestry***
4. State five ways in which agriculture has contributed to the economic development of Kenya. (5mks)
 - ***Food supply***
 - ***Source of employment***
 - ***Provision of foreign exchange***
 - ***Source of raw materials for industries***
 - ***Provision of market for industrial goods***
 - ***Source of money/income/capital***

5. State four human factors influencing Agriculture. (4mks)
- **Level of education and technology**
 - **Health**
 - **Economy**
 - **Government policy**
 - **Transport and communication**
 - **Cultural practices and religious beliefs.**
 - **Market forces.**
6. State how each of the following factors affects Agriculture. (6mks)
- i. Decomposers
 - **They cause rotting of plant and animal materials forming manure.**
 - ii. Pollinators
 - **They cause crops pollination helping in the production of new and improved varieties of crops for the following generation.**
 - iii. Parasites
 - **They suck blood from animals and irritate them by biting their skin.**
7. State three main aspects of light that are important to crop growth. (3mks)
- **Light intensity**
 - **Light duration**
 - **Light wavelength**
8. List four factors influencing soil formation. (4mks)
- **Parent rock material**
 - **Climate**
 - **Topography**
 - **Time**
9. The diagram below represents a soil profile. Study it and answer questions that follow.



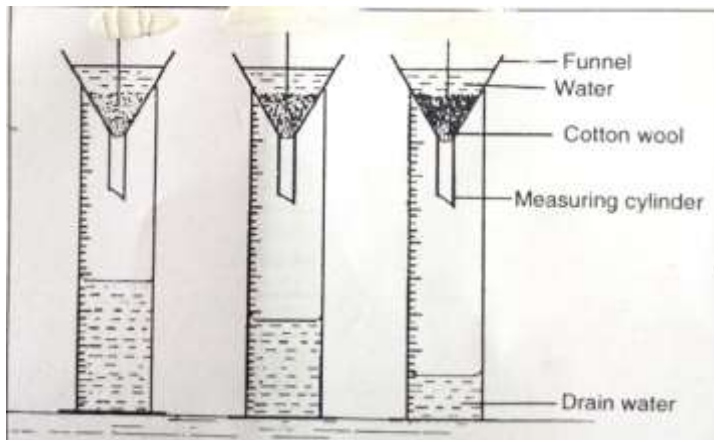
- a. Name the horizons. (4mks)
- A – **Top soil**
 - B – **Sub- soil**
 - C – **Weathered rock / substratum**
 - D – **parent rock / bed rock**
- b. Give two characteristics of horizon A. (2mks)
- **It is darker than other layers due to high humus content.**
 - **It is well aerated.**
 - **Contains active living organisms**
 - **Most plant roots are found here**
 - **Well aerated**
 - **Contains most of plant nutrients**
- c. State two effects of hard pans. (2mks)
- **It impedes drainage**
 - **Prevents root penetration**
 - **It impedes soil aeration**
10. List four soil constituents. (4mks)
- **Soil mineral matter**
 - **Soil organic matter**
 - **Soil air**
 - **Soil water**
 - **Soil living organism**
11. Outline three types of soil structures. (3mks)

- **Single grained**
- **Crumbly**
- **Granular**
- **Prismatic**
- **Platy**
- **Blocky**

12. Give two characteristics of clay soils. (2mks)

- **Have high capillarity**
- **Have poor drainage**
- **Have high water retention/holding capacity**
- **They are sticky and crack easily when dry.**
- **They have small air spaces.**
- **They are usually smooth**

13. The set-up below illustrates an experiment to study a certain physical aspect of different types of soils. Study it and answer questions that follow.



P

Q

R

a. Name soils: (3mks)

P – **Sandy**

Q – **Loam**

R – **clay**

b. What was the aim of the experiment? (1mk)

- **To compare the porosity and water holding capacity of 3 soil types.**

c. How can the structure of soil P be improved? (1mk)

- **By adding organic manure.**

14. State two ways by which soil of pH3 can be raised to a pH of 6. (2mks)
- ***Application of basic fertilizers***
 - ***Application of lime***
15. Give four effects of high temperature in crop production. (4mks)
- ***Increases rate of evaporation leading to wilting of crops.***
 - ***Hastens maturity of a crop.***
 - ***Improves the quality of crops such as pineapples and oranges.***
 - ***Increase incidences of diseases infection and pest infestation in crops.***
16. List four physical agents of weathering. (4mks)
- ***Moving ice***
 - ***Water***
 - ***Wind***
 - ***Temperature***
17. State five categories at farm tools and equipment. (5mks)
- ***Garden tools and equipment***
 - ***Workshop tools and equipment***
 - ***Livestock production tools and equipment.***
 - ***Masonry tools and equipments***
 - ***Plumbing tools and equipments.***
18. State three maintenance practices of a wheelbarrow. (3mks)
- ***Grease the wheel and axle***
 - ***Proper storage***
 - ***Clean after use***
 - ***Replace worn out wheel and axle.***