**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.***
1. 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.***
1. List three methods of farming. (3mks)
* ***Mixed farming***
* ***Nomadic pastoralism***
* ***Shifting cultivation***
* ***Organic farming***
* ***Agroforestry***
1. 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***
1. 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.***
1. State how each of the following factors affects Agriculture. (6mks)
2. Decomposers
* ***They cause rotting of plant and animal materials forming manure.***
1. Pollinators
* ***They cause crops pollination helping in the production of new and improved varieties of crops for the following generation.***
1. Parasites
* ***They suck blood from animals and irritate them by biting their skin.***
1. State three main aspects of light that are important to crop growth. (3mks)
* ***Light intensity***
* ***Light duration***
* ***Light wavelength***
1. List four factors influencing soil formation. (4mks)
* ***Parent rock material***
* ***Climate***
* ***Topography***
* ***Time***
1. The diagram below represents a soil profile. Study it and answer questions that follow.



1. Name the horizons. (4mks)

A – ***Top soil***

B – ***Sub- soil***

C – ***Weathered rock / substratum***

D – ***parent rock / bed rock***

1. 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***
1. State two effects of hard pans. (2mks)
* ***It impedes drainage***
* ***Prevents root penetration***
* ***It impedes soil aeration***
1. List four soil constituents. (4mks)
* ***Soil mineral matter***
* ***Soil organic matter***
* ***Soil air***
* ***Soil water***
* ***Soil living organism***
1. Outline three types of soil structures. (3mks)
* ***Single grained***
* ***Crumby***
* ***Granular***
* ***Prismatic***
* ***Platy***
* ***Blocky***
1. 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***
1. 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.



R

Q

P

1. Name soils: (3mks)

P ***– Sandy***

Q – ***Loam***

R – ***clay***

1. What was the aim of the experiment? (1mk)
* ***To compare the porosity and water holding capacity of 3 soil types.***
1. How can the structure of soil P be improved? (1mk)
* ***By adding organic manure.***
1. State two ways by which soil of pH3 can be raised to a pH of 6. (2mks)
* ***Application of basic fertilizers***
* ***Application of lime***
1. 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.***
1. List four physical agents of weathering. (4mks)
* ***Moving ice***
* ***Water***
* ***Wind***
* ***Temperature***
1. 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.***
1. State three maintance practices of a wheelbarrow. (3mks)
* ***Grease the wheel and axle***
* ***Proper storage***
* ***Clean after use***
* ***Replace worn out wheel and axle.***