**AGRICULTURE**

**2019 MID-TERM 2 EXAM**

Form 1

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**MARKING SCHEME**

**AGRICULTURE FORM ONE**

**MARKING SCHEME**

**END OF TERM 1 2019**

**SECTION A 40 MKS**

1. Ager- means field

Cultura- means cultivation 1x4=4mks

2. Agriculture is the art and science of crop and livestock production. 1x1=1mk

**3. Agriculture as an art**

- tilling of land

- construction of farm structures

- measuring distances

- machine operations

- marketing of agricultural produce

- feeding and handling animals

-harvesting of crops 4x1=4mks

**4. Reasons why student should learn agriculture in school**

-acquire knowledge on crop production

-acquire knowledge on livestock management practices

- learn how to handle livestock

- to know about pest diseases and parasites control

- acquire knowledge on agricultural economics 3x1=3mks

5. meaning of terms

i) soil science – study of soils

ii) entomology – study of the insects and their controls

iii) crop pathology – study of crop diseases

iv) apiculture – keeping /rearing of bees in bee hives

v) aquaculture – rearing of fish in fish ponds 5x1=5mks

**6. four branches of agriculture**

- crop production

-livestock production

-agricultural economics

-agricultural engineering 4x1=4mks

7. mammalian animals

- cattle

-goats

-sheep

-pigs

-camels

-rabbits 4x1=4mks

8. Ranching is the keeping of livestock in marginalized areas while plantation is a scale of farming characterized by the production of one crop in large tracts of land. 2x1=2mks

**9. methods used in farming practices in Kenya.**

-shifting cultivation

-nomadic pastoralism

-mixed farming

-organic farming

-agroforestry. 3x1=3mks

**10.Advantages of agro-forestry.**

-provide building materials or fuel.

-provide animal feeds e.g.Lucerne

-help in soil conservation 2x1=2mks

11.four factors that influence agriculture farming

-human factors

- biotic factors

- climatic factors

- edaphic factors 45x1=4mks

**12. Two ways through which HIV/AIDS affect agriculture negatively.**

-shortage of farm labour

-Increase cost of living of HIV/AIDS patients and their relatives

-low living standards lead to despondency

-low food supply and poverty etc. 2x1 =2mks

**13. effects of wind on crop production**

- act as an agent of soil erosion

-act as an agent of seed dispersal

-increasing evapotranspiration rate

-increasing the spread of pest and diseases

-blowing away and bringing rain bearing clouds

-causing lodging in cereals and damage to crops

-increase evaporation of moisture from the soil. 2x1=2mks

**SECTION B 20MKS**

**14a) A -superficial layer**

X- top soil (A) horizon

Y -subsoil (B) horizon

Z -weathered rock (C)

J- parent rock (D) horizon 5x1 =5mks

**b) soil profile – is the vertical arrangement of various soil layers or horizons. 1x1=1mk**

c) the zone between two boundering zones

-transitional zone 1x1=1mk

**d) five components that make up the soil**

-mineral matter

-organic matter

- soil air

-soil water

-living organism 5x1=5mks

**15a) Identifying structures**

K - platy soil structure

L - blocky soil structure

M - columnar soil structure 3x1=3mks

**b) Reasons why structure K is not good for crop production**

-prevent roots penetration

-impairs water permeability (poor drained) 2x1 =2mks

**16. farm tools**

G- rake

H - garden trowel

I- garden fork or manure fork 3x1= 3mks

**SECTION C 40 MKS**

**17a) Roles of agriculture**

-food supply

-source of employment

-provision of foreign exchange

- source of raw materials for industries explained

-provision of market for industrial goods

-source of money or capital 5x2=10mks

**b) five biotic factors that affect agriculture**

-pests

-parasites

-decomposers

-pathogens

-predators explained

-pollinators

-nitrogen fixing bacteria 5x2=10mks

**18a) four aspects of rainfall**

* Rainfall reliability
* Rainfall distribution
* Rainfall intensity
* Amount of rainfall explained 4x2=8mks

**18b) factors influencing soil formation**

* Parent rock material
* Topography
* Climate
* Time explained 4x2=8mks

**c) Effects of temperature on crop production**

-slow growth rate of crops

- high incidence of diseases infection

- improves the quality of produce

-increase evaporation leading to wilting of crops

-increase rate of growth or hastens the maturity of a crop. 4x1=4mks

**19a) Aspects of light that influence crop farming**

* Light intensity
* Light duration
* Light wavelength explained 3x2=6mks

**b) Uses of water to crops**

-solvent for plant nutrients

-raw materials in photosynthesis

- has a cooling effects on crops during transpiration

- gives the plants the support (in photoplasm- turgidity) 4x1= 4mks

**c) Categories of farm tools and equipment and their examples.**

- garden tools and equipment

- workshop tools and equipment

-livestock production tools and equipment

- masonry tools and equipment

- plumbing tools and equipment. Examples 5x2=10mks

**THE END**