**AGRICULTURE MARKING SCHEME**

**November 2022**

1. **Four reasons as to why Agriculture is regarded as an art (4marks)**

 Tilling of land,

Construction of building,

Harvesting crops

 Feeding and handling animals

 Marketing of agriculture

**2.The meaning of the terms (2 marks)**

olericulture - growing of vegetables such as tomatoes , eggplants pepper, capscum, Cabbages.

Pomology- is the growing of fruits such as citrus mangoes, pawpaws ,apples and avogado

**3. Four branches of livestock farming.(2 marks)**

Pastoralism ( mammalian livestock farming),Fish farming( aquaculture), bee keeping( apiculture), poultry keeping( Chicken ,Duck, ostrich

**4. What is agroforestry? (1 mark).**

 **5 a)Name two intensive farming systems in crops and in livestock farming..( 1 marks).**

Crops- plantaion farming

Livestock-ranching

**b) Four characteristics ofextensive farming. (4mks)**

extensive farming requires large tracts of land, low capital investment, low labour per unit area and low yields per unit area

**6.A system of farming which is characterized by use of large tracks of land and production of one crop.**

Plantation farming

**7. Two limitations of mixed farming (2 marks)**

technical know how

Inadequate high initial capital required to start the various enterprises.

Inadequate

labour to run each enterprise

**8.Three characteristics of shifting cultivation.(3 marks)**

total yields per unit is low

there is no pest and disease build up

soil structure is maintained

 No land disputes as land ownership is communal.

**9.Four as to why agriculture is important in Kenya ( 4 Marks)**

-source of food

Source of income

Source of employment directly and indirectly

Provide raw materials to the industries

A market for the inductrial goods

Source of foreign currency

**10a) The advantages of organic farming in regard to environmental conservation. (3 marks)**

it does not pollute the air , water and soil with inorganic chemicals; it conserves ling organisms since it does not use agro-chemical.; improve soil structure which water infiltration and retaintion; food for soil microbes.

**b). Four activities that may be undertaken to achieve organic farming.(4 marks)**

Crop rotation; mulching; use organic pesticides; use of organic manure; use of medicinal plants, e,g pepper

**11.Name four factors that influence agricultural production.( 2marks)**

Human factors

Climatic

Biotic

Soil( edaphic factora)

**12. two reasons why the healthy wellbeing of a farmer is important in Agricultural production.(2 marks)**

Healthy farmer have vigour enabling them to work hard in the farm

healthy farmer does not spent income on medication,leading to high purchasing power

 A health farmer is motivated to invest in agriculture leading to high standards of living.

Health increases food supply, hence reducing poverty

 **13.Three policies that the has to impose in order to regulate agricultural production.(3 marks)**

Healthy farmer have vigour enabling them to work hard in the farm; healthy farmer does not spent income on medication, leading to high purchasing power; A health farmer is motivated to invest in agriculture leading to high standards of living.; Health increases food supply, hence reducing poverty

**14 Name four biotic factors that have negative effects on agricultural production.3 marks)**

Parasites

Pathogens

Predators

pests

**15.State four climatic factors that influence Agricultural production. ( 4marks)**

Rainfall

Temperature

Light

Wind

Relative humidity

**16. Three effects of low temperature on crop production.(3marks)**

.slow growth rate

high incidence of diseases infection to crops e.g CBD.Elgon die back in coffee.

improves quality in tea and pyrethrum

**17a) Two methods of increasing light intensity in crop production.(2 mark)**

pruning; weeding; spacing; use of wider spacing.

**b)The meaning of the following terms as used in light duration.(2 marks)**

i. short day plants- require less than 12 hours of day light

ii. day neutral plants- 12 hours of day light

**18. Three soil forming processes.( 3 mark)**

biological

physical

chemical

**19. Soil horizons with ; (3 marks)**

i. high amounts of nutrients-TOP SOIL

ii. contains a hard pan-SUB SOIL

ii.is referred to as the layer of accumulation-

**20.Three soil composition (3 marks**

Soil air

Soil water

Soil organic matter

Soil organisms

Inorganic matter

**21.The diagram below shows an experiment set up using soil type G &, H and J and observations made after 24 hours. Study the diagram an answer the questions that follow**.

1. **To test soil capillarity (1mark)**

**b). Name the three soil types G & H and J. (3 marks)**

 G-sand

 H-loam

 J -clay

**c) The characteristic texture of soil types G and J? ( 1 mark )**

 G-coarse

 J-fine

**d. Two ways a farmer would improve the structure of soil type G.(4marks)**

manuaring , liming

22.

|  |  |  |
| --- | --- | --- |
|  | Soil structure | Where found |
| E | prismatic | Sub soil horizons of the land of the arid and semi-arid soils |
| F | Platy | Top horizons of soils in the forests |
| G | Single grained | Top soils of sandy soils of sandy soils |
| H | granular | Top horizons of cultivated soils  |