

AGRICULTURE
OPENER EXAMINATION – TERM 2 2024
FORM 1 – MARKING SCHEME

1.a) Define the term following terms as used in agriculture. (3mks)

a) soil profile

vertical arrangement of soil layers from top soil to parent rock.

b) organic farming

Growing of crops and rearing of livestock without use of agricultural chemical.

c) agroforestry

growing of trees, crops and pasture in combination with each other.

2. Give three activities that justify the fact that Agriculture is: (3mks)
science

- Agricultural engineering
- Plant and animal breeding
- Entomology
- Crop pathology
- Soil, study

3. Give four characteristics of large scale farming system. (4mks)

- Require large tracks of land
- Mechanization is common
- Skilled labour
- Processing of product in the farm
- Provide more employment
- Require high capital investment.

4. State two conditions under which shifting cultivation is favourable. (3mks)

- Communal land ownership*
- Large piece of land*
- Sparse population.*

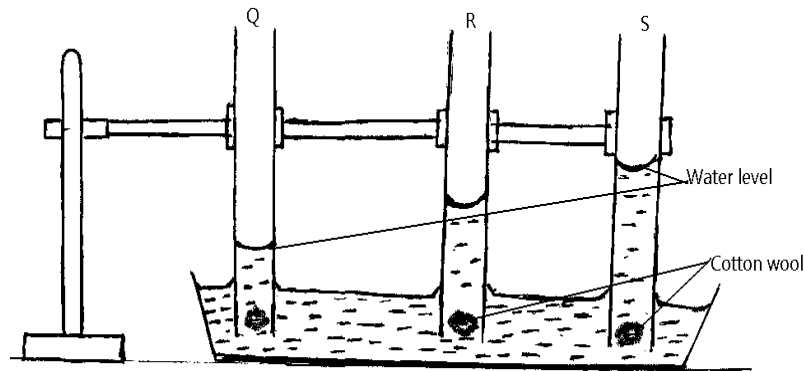
5. Give two characteristics of intensive farming system. (3mks)

- Requires high initial capital.*
- Is labour intensive.*
- Requires high level of management/skilled labor.*

6. Identify any five methods of farming (5mks) (5mks)

- Organic farming*
- Shifting cultivation*
- Mixed farming*
- Agroforestry*
- Nomadic pastoralism*

7. The diagram below shows an experiment set up using soil type *Q*, *R*, *S*, and observations made after 24 hours. Study the diagram below and answer the questions that follow.



(a) The experiment set up above is designed to *study what?* (1mk)

Capillarity of different soils

(b) *Name the three soil types Q, R, S.* (3mks)

Q-sandy soil

R-loam soil

S-clay soil

(c) *What are the characteristic texture of soil type R and S?*

R moderately textured (1mk)

S fine texture (1mk)

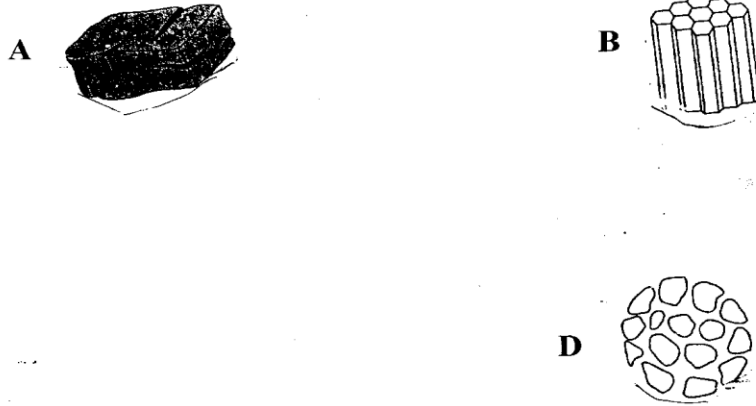
8. **State Three aspects of light that affect agriculture.** (3mks)

Light intensity.

Light wavelength.

Light duration

9. The illustration below represents types of soil structures. Study them carefully and answer questions that follow.



- a) Identify the soil structures labelled.(4MKS)
A- Blocky structure
B- Columnar structure
C-Crumb structure.
D- Single gamed structure.
- b) State ONE method of improving soil structure labelled D. (1mk)
Add organic matter / composite manure.

10. List any **four** ecological factors that affect crop production in Kenya (4mks)

Rainfall
Temperature.
Altitude
Wind
Humidity
Topography
Soil

11. Name three classes of crops based on light duration.(3mks)

- Short day plants
- Long day plants
- Day neutral plants

12. State **four negative effects of strong winds in agriculture.** (4mks)

- Increase rate of evaporation of moisture from the soil.
- Causing lodging in cereals and damage to crops
- Blowing away and bringing rain-bearing clouds
- Acts as agent of soil erosion
- Increase evapotranspiration rate
- Increase spread of pests and diseases
- Destroy farm structures

13. **outline Four practices in agriculture that destroy soil structure (4mks)**

-Overcultivation which leads to soil pulverigation
-Using heavy machinery in wet soil.

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- Cultivating at the wrong time i.e when the soil is too wet or too dry.
- Overstocking which leads to overgrazing
- Burning of organic matter.
- Monocropping.

14. State any four factors that should be considered when choosing tools and equipment to use in the farm. (4mks)

Suitability- tools/ equipment should be suitable for the task

Availability- Tools/ equipments should be available in the shops

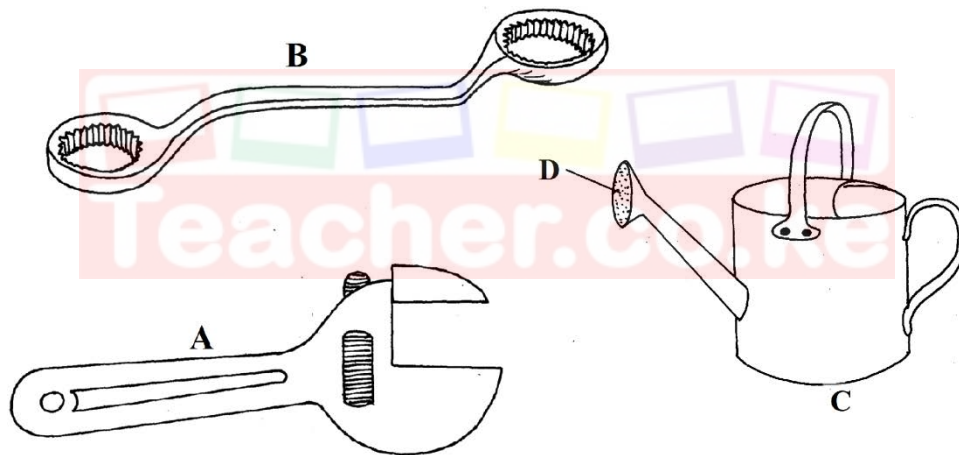
Cost- Should be affordable by the farmer

Cost of maintenance- Should be easily and cheap to maintain

Durability- Should last long, once acquired

Ease of operation- Should be easy to operate by the farmer

15. Below are diagrams of farm tools and an equipment. Study them and answer the questions that follow.



(i) **Identify tools A, B and C (3mks)**

A-Adjustable spanner

B-Ring spanner

C-Watering can

(ii) **Use of equipment C. (1mk)**

-Watering seedling in the nursery bed / seedbed

16. state **Four categories of farm tools and equipments. (4mks)**

- *Workshop*
- *Garden/Gardening*
- *Livestock production*

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- *Plumbing*

- *Masonry*

17. Explain four importances of agriculture in the economy.

- *Agriculture provides food – enough food ensures healthy population for economic development of a wealthy nation.*
- *Agriculture is a source of employment – money earned is used for economic development of the nation.*
- *Source of raw material for industries. Agriculture therefore encourages industrial development for economic growth of the country.*
- *Provision of market for industrial goods. This leads to industrial development for economic development of the country.*
- *A source of money or capital. The extra money is used for economic development.*
- *Improves infrastructure in producing areas. This may lead to start of industries for economic development.*

Any 4 explained x2=8 marks

