

AGRICULTURE FORM ONE

MARKING SCHEME

1. State four main branches of agriculture. (4mks)

- Crop production/arable farming
- Livestock production
- Agricultural economics
- Agricultural engineering

2. Name three forms in which water exists in the soil. (3mks)

- Hygroscopic water
- Capillary available water
- Superfluous water

3. State any four advantages of mixed farming. (4mks)

- Mutual benefit between livestock and crops
- Income is earned throughout the year
- Diversification of farm enterprises/security of income.
- Livestock e.g. oxen is used to provide farm power.

4. aspects of light that affect crop production

- Light duration.

- - Light intensity.

- - Light wavelength.

$1/2 \times 3 = 1 \frac{1}{2}$ mks

5. characteristics of large scale farming system

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

$1/2 \times 4 = 2$ mks

6. Give five constituents of soil (4mks)

Mineral matter

Organic matter

Air

Water

Living organism

7. State four factors influencing soil formation (4mks)

Parental rock material

Climate

Topography

time

8. List three aspects of rainfall that a farmer should consider (4mks)

Rainfall reliability

Amount of rainfall

Rainfall distribution

Rainfall intensity

9. Differentiate between pomoculture and olericulture (2mks)

Pomoculture is growing fruits such as mangoes while olericulture is growing of vegetables such as cabbages and tomatoes

10. State four reasons that makes agriculture important to Kenya's economy (4mks)

Food supply / source of food

Source of employment

Provision of foreign exchange

Source of raw materials for industries

Source of money / capital

11. Give four types of soil structures (4mks)

Single grained soil structure

Crumby soil structure

Granular soil structure

Prismatic soil structure

Blocky soil structure

12. List four human factors that affect agriculture (4mks)

Level of education and technology

Health

Economy

Transport and communication

Government policy

Market forces

13. Outline four effects of wind in agriculture (4mks)

Increasing the rate of evaporation

Acting as agent of seed dispersal

Acting as agent of soil erosion

Destroying farm structures

Blowing away and bringing rain-bearing clouds

14. Give four ways in which soil PH can be modified (4mks)

Application of lime / basic compound

Application of basic fertilizers

Application of sulphur

Application of acidic fertilizers

15. The diagram below shows some workshop tools. Study them and answer the questions that follow



(a) Identify the tools **A** and **B** (2mks)

A pipe wrench

B ring spanner

(b) State the correct use of the tool labeled A (2mks)

For holding tightening and loosening metallic pipes

(c) Explain **one** maintenance practice carried out on the tool A (1mk)

The tool should be cleaned after use

16. State **four** categories of farm tools and equipment (4mks)

- *Workshop tools and equipment*
- *Gardening /Garden tools and equipment*
- *Livestock production tools*
- *Plumbing tools and equipment*
- *Masonry tools and equipment*

17. - Nitrogen-fixing bacteria

- Decomposers

- Pollinators

- Predators eg lady bird

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