

OPENER EXAMINATION: TERM 1 2024

AGRICULTURE

FORM 2

TIME:1 HR 45 MINS

MARKING SCHEME

INSTRUCTIONS:

Answer all questions in section A and B in the spaces provided after the question.

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1. Give the terms that describe the following livestock. (5mks)
 - a) Young castrated male cattle.**STEER**.....
 - b) Young one of cattle **calf**
 - c) Young female of pig from weaning up to first parturition.
Gilt
 - d) A mature male pig
Boar
 - e) A mature male bird
Cock
 2. State four uses of farm records. (4mks)
 - **Show history of the farm**
 - **Help in assessment of income tax**
 - **Determines value of the farm**
 - **Support insurance claims**
 - **Settle dispute among heirs**
 3. State the importance of the following in the preparation of compost manure . (4mks)
 - a) Well rotter manure
 - **Provide food to bacteria/micro-organisms**
 - b) Wood ash
 - **To improve level of phosphorous and potassium**
 - c) A layer of top soil
 - **Introduce micro- organism**
 - d) Water
 - **To moisten materials for better decomposition**
 4. State four importance of drainage (4mks)
 - **To raise soil temp**
 - **To remove toxic substances**
 - **To increase microbial activities**
 - **To increase soil volume**
 - **To increase soil accretion**
 - **To reduce soil erosion**
 -
 5. Mention four importance of water treatment on the farm. (4mks)
 - **to kill disease causing organism**
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- to remove chemical impurities
- to remove smells and bad taste
- To remove sediments of solid particles.

6. State four importance of secondary cultivation (4mks)
- **Remove weeds germinating after primary cultivation**
 - **To break soil clods**
 - **To level the filed**
 - **To incorporate organic matter**

7. Differentiate between the following (i) **Apiculture and pomology.** (2mks)
- Apiculture – bee keeping
 - **Pomology- fruit growing**

- (ii) **Olericulture and pastoralism** (2mks)
- **Olericulture- growing of vegetables**
 - **Pastoralism – keeping of mammals**

8. Name four biotic factors that affect agriculture negatively. (4mks)
- **Pests**
 - **Pathogens**
 - **Some predators**
 - **parasites**

9. State four factors influencing soil formation. (4mks)
- **Parent material**
 - **Climate**
 - **Topography**
 - **Living organisms**
 - **Time**

10. Write down the stages involved in process of water treatment. (6mks)
- **Filtration at intake**
 - **Softening**
 - **Coagulation and sedimentation**
 - **Filtration**
 - **Chlorination**
 - **Storage**

11. State four factors determining quality of farm yard manure. (4mks)
- **Type of animal used**
 - **Type of food eater**
 - **Type of litter used**
 - **Method of storage**
 - **Age of farmyard manure**
 - **Age of the animal**

12. State four methods of drainage on the farm.

- **Open ditches**
- **Cambered beds**
- **French drains**
- **Underground drain pipes**
- **Pumping**
- **Planting trees**

13. State three physical properties of soil.

(3mks)

- Colour**
- Texture**
- Structure**

14. State four methods of farming

(4mks)

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

15. State two aspects of light influencing crop growth.

(2mks)

- **Light intensity**
- **Light duration**
- **Light wavelength/quality**



SECTION B (40MKS)

16. Use the diagram below to answer the questions.

- a) State the aim of the experiment. (1mk)
 - **To show that soil contains active living organism.**

- b) State the expected results after 24 hours in flask A and B. (2mks)
 - **A: lime water turned milky**
 - **B: Lime water- remained clear**

- c) Explain the reason for the observation made after 24 hours. (2mks)

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- **A: Lime water turned milky due to CO₂ produced by reaping organisms.**
- **B. Organisms were killed by heat, hence n CO₂ released.**

17. Study the diagram below of farm tools and equipment.

a) Give the names of tools X, Y and Z. (3mks)

X- dehorning Iron

Y- Rubber ring

Z- pruning saw

b) State the function of tools V and W (2mks)

V: Checking mastitis in milk

W : making holes for transplanting seedlings

c) State five reasons for maintain farm tools and equipment. (5mks)

- **To avoid injury to the user**
- **To avoid damage to the tool**
- **To increase durability**
- **To reduce replacement cost**
- **To increase efficiency**

18. (a) State the three basic economic concepts. (3mks)

- **Scarcity**
- **Preference and choice**
- **Opportunity cost**

(b) Name the two types of labour records. (2mks)

- Muster roll
- Labour utilization analysis

19. Study the diagram below and answer the questions.

(a) Identify the part labelled P and Q. (2mks)
P- **Rump**

Q - **belly**

(b) State three reasons why farmers keep rabbits. (3mks)
- **for meat supply**
- **For fur**
- **For dropping (manure)**

20. (a) Name any four breeds of sheep reared in Kenya. (2mks)

- **Marino**
- **Romney marsh**
- **Corriedale**
- **Hampshire down**
- **Blackhead Persian**
- **Dorper**
- **Red maasai sheep**

(b) State two species of camels reared in Kenya. (2mks)
- **Dromedary**
- **Bactrian**

© Name a breed of pig that is pure black in colour. (1mk)

- **Duroc Jersey**

21. Use the diagram below to answer the questions.

(a) Identify the type of soil structure C and D. (2mks)

C- **Columnar**

D- **Prismatic**

(b) State three farming practices that influence soil structure. (3mks)

- **Application of organic mulch**
- **Cover cropping**
- **Over-cultivation**

- **Minimum tillage**
- **Application of lime**
- **Overstocking/over grazing**

22. State five importance of primary cultivation.

(5mks)

- To bury organic matter
- Facilitate water infiltration
- Promote aeration
- Remove weeds
- Destroy soil borne pests

23. State five reasons for minimum tillage.

(5mks)

- **To reduce cost of cultivation**
- **To control soil erosion**
- **To maintain soil structure**
- **To conserve moisture**
- **To prevent root disturbance**
- **To prevent exposure of humans**

