**AGRICULTURE**

**FORM ONE M/S**

**MID TERM 3 2022**

1. What do you understand by the following terms?
2. Cock (1mk)
* **Mature male bird**
1. Layer (1mk)

 **-Bird kept for egg production**

c) Capon (1mk)

 **- Bird which has been rendered sterile**

2.Study the diagrams below and answer the questions that follows



(a)Name X and Y

X **water.(**1mk)

Y **space…(**1mk)

(bWhat type of soil A and B(2mks)

**Sand particles**

**Lumps of clay particles**

1. Outline four importance of keeping farm records. (4mks)
2. **They show the history of the farm**
3. **Guide the farmer in planning and budgeting of farm operations**
4. **Help in supporting insurance claims on death, theft and fire of farm assets**
5. **Provide labour information like terminal benefits**
6. **Helps to detect losses or theft of the farm**
7. **Helps to compare performance of different enterprises.**
8. a) Under what farming conditions is opportunity cost zero? (1mk)
* **When there are no alternatives.**

b) What are farm records? (1mk)

* **They are documents kept in the farm showing farm activities over a given period of time.**
1. Name four commonly kept records used by a farmer (4mks)

-**Production records -Feeding records**

**-Inventory records - Health records**

**-Field operation records - Marketing records**

**-Breeding records - Labour records**

5. A part from opportunity cost, state two other basic economic concepts. (2mks)

1. **Scarcity**
2. **Preference and choice**

6. State four factors that determine the type of irrigation chosen by a farmer. (4mks)

1. **Capital availability**
2. **Water availability**
3. **Type of crop to be irrigated**
4. **Topography of the land**
5. **Type of soil.**

7. Name four breeds of dairy goats. (4mks)

1. **Saanen**
2. **Toggen burg**
3. **British alpine**
4. **Anglo Nubian**
5. **Jamnapari**

8. Outline four advantages of practicing mixed farming (4mks)

1. **It makes better utilization of the available land**
2. **There is better conservation of water and soil**
3. **A mutual benefit exists between crops and animals**
4. **There is diversification of farming business.**

9. State five activities Agriculture entrants as an art. (5mks)

1. **Tilling of the land**
2. **Construction of farm structures**
3. **Measuring distance**
4. **Machine operations**
5. **Harvesting of crops**
6. **Feeding and handling crops**
7. **Marketing of agricultural produce**

10. Outline four roles of agriculture in an economy. (4mks)

1. **Food supply**
2. **Source of employment**
3. **Provision of foreign exchange**
4. **Source of capital**
5. **Provision of market for industrial goods**
6. **Source of raw materials for industries**

11. Name any four branches of Agriculture. (2mks)

1. **Livestock production**
2. **Crop production**
3. **Apiculture**
4. **Poultry keeping**
5. **Agricultural economics**
6. **Soil science**
7. **Olericulture etc**

12. Outline three advantages of shifting cultivation. (3mks)

1. **Has low capital requirements**
2. **There is no pest and disease build up**
3. **Soil structure is maintained**
4. **No land disputes as land ownership is not individualized**

13. State four biotic factors affecting agriculture production. (4mks)

**-Pests -Predators**

**-Parasites -Pollinators**

**-Decomposers -Nitrogen fixing bacteria**

**-Pathogens**

14. Name four physical agents of weathering. (4mks)

1. **Wind**
2. **Water**
3. **Moving ice**
4. **Temperature**

15. What are the four factors influencing soil formation? (4mks)

1. **Parent rock material**
2. **Climate**
3. **Topography**
4. **Time**

16. . . Study the diagram below and answer the questions that follow.

 

(a) What does the diagram above represent. (1mk)

**Soil profile**

(b) Name parts labelled R, S, T and U.

 R **top soil**  (1mk)

 S **sub soil**  (1mk)

 T **weathered rock**  (1mk)

 U **parent rock**  (1mk)

(cState any three components of soil(3mks)

**Minerak matter**

**Organic matter**

**Air**

**Water**

**Living organism**

17. What are the two main classes of soil living organisms? (2mks)

1. **The macro- organisms**
2. **The micro- organisms**

18. State three effects of HIV/AIDS on Agriculture. (3mks)

1. **Shortage of farm labour**
2. **Increasing cost of living of AIDS patients and their relatives**
3. **Low living standards**
4. **Low food supply**
5. **The government and NGO’s use a lot of time and resources in controlling the pandemic**

19. State three reasons for proper care and maintenance of farm tools and equipment. (3mks)

1. **To increase durability**
2. **To reduce the replacement cost**
3. **Increased efficiency**
4. **To avoid injury to the user**
5. **To avoid damage to the tool**

20. State the maintenance practices carried out on the following tools;

i) Hand saw (1mk)

**-Regular sharpening of teeth should be done**

ii) Milking churn (1mk)

**-Clean after use**

iii) Jembe (1mk)

**-Broken handles should be replaced**

iv) Chisel (1mk)

**-Sharpen the cutting edges**

21. State three reasons for preparing land before use. (3mks)

1. **To kill weeds**
2. **To aerate the soil**
3. **To encourage penetration of roots**
4. **To encourage water infiltration**
5. **To destroy stages of crop pests**

22. List two factors that determine the number of times a farmer would harrow his land. (2mks)

1. **Size of planting materials**
2. **Slope of the land**
3. **The moisture content of the soil**
4. **Conditions of the soil after primary cultivation**

23. Give three reasons why minimum tillage is practiced. (3mks)

1. **To reduce cost of cultivation**
2. **To control soil erosion**
3. **To maintain soil structure**
4. **To conserve moisture**
5. **To prevent exposure of humus**

24. Give two reasons why the burning of bushes as a method of land clearing should be discouraged. (2mks)

1. **A lot of organic matter is destroyed**
2. **Burning kills soil micro-organisms**
3. **Planting nutrients are destroyed**

25. State three importance of primary cultivation. (3mks)

1. **To remove weeds**
2. **To bury organic matter for easy decomposition**
3. **To facilitate water infiltration and aeration**
4. **To destroy soil-born pests by exposing them to predators and sun**
5. **To make planting easy**

26. a) State three tertiary operations carried out to suit production of crops. (3mks)

1. **Ridging**
2. **Rolling**
3. **Leveling**

b) Name three sources of surface water. (3mks)

1. **Rivers**
2. **Streams**
3. **Dams**
4. **Lakes**

27. Outline the Agricultural practices that pollute water. (2mks)

1. **Use of inorganic fertilizers**
2. **Use of pesticides**
3. **Poor cultivation practices**

28.a) What is drainage? (1mk)

**-This is a method of removing excess water or lowering water table from marshy waterlogged land.**

b) List four types of drainage. (2mks)

1. **Open ditches**
2. **Underground drain pipes**
3. **French Drains**
4. **Cambered Beds**
5. **Pumping**
6. **Planting trees**

29. State six ways through which soil fertility is maintained. (3mks)

1. **Control of soil erosion**
2. **Crop rotation**
3. **Control of soil PH**
4. **Proper drainage**
5. **Weed control**
6. **Mixed cropping**
7. **Minimum tillage**
8. **Use of manure**
9. **Use of inorganic fertilizers**