

**ANESTAR SCHOOLS**  
**END OF YEAR EXAMS 2022**  
**AGRICULTURE**  
**FORM TWO**  
**MARKING SCHEME**

1. State two characteristic of beef cattle (2 marks)

*They are blocky in shape*  
*They have deep well fleshed bodies*  
*They grow fast leading to early maturity*  
*They breed regularly*  
*They are more tolerant to high temperature*  
*They are more tolerant to diseases*

2. Name two commonly records kept by a farmer (2 marks)

*Production records*  
*Inventory records*  
*Field operation records*  
*Feeding records*  
*Health records*  
*Marketing records*  
*Breeding records*

3. State five activities agriculture entails as an art (5 marks)

*Tilling of land*  
*Construction of farm structure*  
*Measuring distances*  
*Harvesting of crops*  
*Feeding and handling animals*  
*Marketing of agricultural products*

4. List four types of drainage (4marks)

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

5. Outline the agricultural practice that pollute water (3marks)

*Ridging*  
*Rolling*  
*Leveling*

6. Name two soil sampling method (2marks)

*Traverse methods*  
*Zigzag method*

7. Name two broad categories of plant nutrients (2marks)

*Macro-nutrients*  
*Micro-nutrients*

8. Outline four advantages of using seed as planting materials (4marks)

*Easy to treat against soil borne pest and diseases*  
*They are not bulky therefore easy storage*  
*Easy to handle during planting*  
*Easy to mechanize like seed planter*  
*Possible to apply manure and fertilizer together with seed during planting*  
*Possible to develop new plant variety*

9. Given that maize is planted at spacing of (75 X 25) cm, calculate the plant population in a plot of land measuring (4 X 3)cm. (3marks)

*Plant population =  $\frac{\text{area of land}}{\text{Spacing of crop}}$*

$$\frac{(4 \times 3)100}{75 \times 25}$$

*64 plants*

10. State four nursery management practices (4marks)

*Mulching*  
*Watering*  
*Weed control*  
*Pricking out*  
*Shading*  
*Pest and disease control*  
*Hardening off*

11. What are the importance of tissue culture in crop propagation (3marks)

*Used to recover and establish pathogen free plant*

*Used in the mass production of propagules*

*It is fast and requires less space than the cultural methods of using cutting which requires a bigger space.*

12. State four factors considered that influencing crop rotation (4 marks)

*Crop root depth*

*Crop nutrient requirements*

*Weed control*

*Pest and disease control*

*Soil fertility*

*Soil structure*

13. What are the characteristics of a good grain store (4marks)

*Rat or vermin proof*

*Well ventilated*

*Easy to load and off load*

*Pest-free*

*Leak proof well-secured to minimize theft*

*Cool conditions to prevent overheating the would crack the grains*

14. Name four categories of vegetables grown in Kenya. (4 marks)

*Leaf vegetables*

*Root vegetables*

*Fruit vegetables*

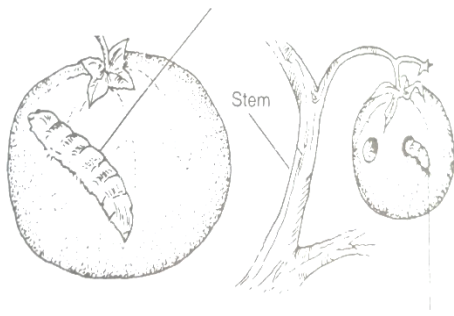
*Stem vegetables*

*Flower vegetables*

*Pods vegetables*

*Bulb vegetables*

15. Study the diagram of a tomato fruit below and answer the question that follows.



i) Identify the pest?(1mark)

*American bollworm*

ii) Name three other pest that attack tomato (3marks)

*Cutworm*  
*Red spider*  
*Mite*  
*Nematodes*

16. Why should a farmer keep his/her animals healthy (4marks)  
*They grow well and fast enough to reach maturity quickly*  
*Have longer economic and productive life*  
*Give maximum production or performance*  
*Produce good quality product that command a high market value*  
*Will not spread diseases to either animals or human being*  
*Are economic and easy to keep as less money is spend on diseases treatment*
17. Name four pre-disposing factors of livestock diseases (4marks)  
*Species of the animal*  
*The breed of the animal*  
*Age of the animal*  
*Sex of the animal*  
*Colour of the animal*
18. State four effects of parasites on livestock (4marks)  
*Cause anemia*  
*Deprive the host animal of food*  
*Injury and damage to tissues and organ*  
*Disease transmission*  
*Cause irritation*  
*Obstruction to internal organs*
19. What is the function of water in animals (4marks)  
*Component of body cell and body fluid*  
*Transportation of nutrients in the body*  
*Make cells turgid, maintaining the shape of the body*  
*Used in biochemical reaction*  
*Regulate body temperature through sweating and evaporation*  
*Help excretion of waste products from the body.*  
*Form part of animal product like milk.*
20. State four factors affecting maintenance ratio required by an animal (4marks)  
*Body size or weight of the animal*  
*Age of the animal*  
*Animal's activities*  
*Level of production*

