

MID TERM TWO EXAM 2024
FORM TWO AGRICULTURE
TIME: 1 HOUR 15 MINUTES

Answer all the questions in the spaces provided.

1. State two reasons why it is not advisable to use manure in carrot production. (2 mks)
- **Causes or induces forking**
 - **Lowers the quality**
2. State four field management practices carried out in onions. (2 mks)
- **Thinning**
 - **Weeding**
 - **Topdressing**
 - **Pest and disease control**
3. (a) Define the term crop rotation. (1 mk)
- **Growing of different types of crops of different families on the same piece of land in an orderly sequence.**
- (b) State six importance of crop rotation. (3 mks)
- **Control weeds**
 - **Controls soil borne pests and diseases**
 - **Improves soil fertility**
 - **Improves soil structure**
 - **Maximises on use of nutrients**
 - **Controls soil erosion.**
4. State three ways on how training in plants is achieved. (3 mks)
- **Staking**
 - **Trelishing**
 - **Propping**
5. Differentiate between monocropping and mixed cropping. (2 mks)
- **Monocropping: growing one type of crop in a farm**
 - **Mixed cropping: growing two or more crops in the same field but in specific sections**
6. State four factors that determine the time of harvesting a crop. (2 mks)
- **Conc. Of the required chemicals**
 - **Market demand**
 - **Purpose of the crop/use**
 - **Weather conditions**
 - **Prevailing market price/profit margin**
7. Mention four examples of leafy vegetables. (2 mks)
- **Cabbages**
 - **Spinach**

- Kales
- Amaranthus

- Cowpeas

8. List four reasons for staking in tomatoes. (2 mks)
- Promotes production of clean fruits
 - Facilitates spraying and harvesting
 - Controls diseases
 - Prevents soil-borne pests
9. State four factors that determine quality of farm yard manure. (2 mks)
- Type of animal used
 - Type of food eaten
 - Age of FYM
 - Type of litter
 - Method of storage
 - Age of the animal.
10. State four cultural uses of livestock. (2 mks)
- Status symbol
 - Social ceremonies e.g marriage
 - Recreational purposes
 - Medium of exchange.
11. Name four examples of nitrogenous fertilizers. (2 mks)
- Calcium Ammonium Nitrate (CAN)
 - Ammonium sulphate/sulphate of Ammonia
 - Ammonium sulphate Nitrate (ASN)
 - Urea.
12. Name two systems of pruning practiced in coffee. (1 mk)
- Single
 - Multiple stem
13. State four advantages of mulching in crop production. (2 mks)
- Prevents water evaporation
 - Controls weeds
 - Controls soil erosion
 - Improves soil fertility
 - Regulates soil temperature.
14. Name three dual purpose breeds of cattle. (11/2 mks)
- Simmental
 - Red poll
 - Sahiwal
15. Differentiate between fine plucking and coarse plucking as used in tea. (2 mks)
- Fine plucking: Picking 2 leaves and a bud
 - Coarse plucking: Picking 3 leaves and a bud.
16. State three basic economic concepts in agricultural economics. (1 ½ mks)
- Opportunity cost
 - Preference and choice

- Scarcity.

17. The diagram below shows a seedling attacked by a pest.

- (a) Identify the pest. (1 mk)
- Cutworm
- (b) State two control measures of the pest. (2 mks)
- Crop rotation
- Use of appropriate insecticides/chemicals
- (c) Name two diseases that affect cabbages. (2 mks)
- Damping off
- Downy mildew
- Black Rot

18. Given that maize is planted at a spacing of 75cm x 25cm, calculate the plant population in half a hectare. (2 mks)

$$\text{Plant population} = \frac{\text{Area of land}}{\text{Spacing}}$$

$$= \frac{5000m^2}{0.75 \times 0.25} = 26,666 \text{ or } 26,667 \text{ plants}$$

19. State six characteristics of a good grain store. (3 mks)
- | | |
|------------------------------------|-----------------------|
| - Rat or vermin proof | - Pest free |
| - Well ventilated | - Leak proof |
| - Easy to load and off load | - Well secured |
| - Cool conditions | |
20. Differentiate between over-sowing and under-sowing. (2 mks)
- Over sowing: Introduction of a pasture legume in an existing grass pasture.**
 - Under-sowing: establishment of pasture under a cover crop.**

21. The diagram below shows a process used in cop production.

- (a) Name the process. (1 mk)
- **Aerial/marcotting**
- (b) Apart from the process above, name two other methods used. (2 mks)
- **Tip** - **Compound/serpentine**
- **Trench**
22. Name one disease in coffee that can be controlled through open pruning. (1 mk)
- **Coffee Berry Disease (CBD)**
23. Differentiate between viticulture and apiculture. (2 mks)
- **Viticulture: fruit growing**
- **Apiculture: Bee keeping.**

