

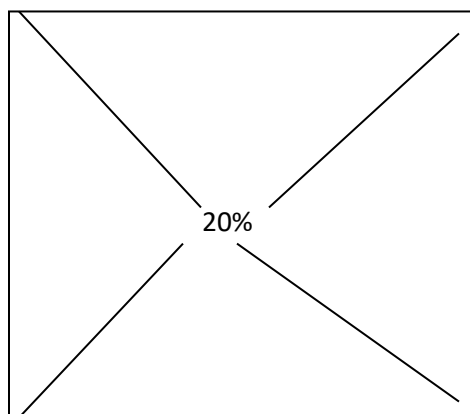
AGRICULTURE
(MARKING SCHEME)
END YEAR EXAM – 2025
FORM TWO

1. State four symptoms of liver fluke attack in sheep. (2mks)
 - **Loss of weight and emaciation**
 - **Pot-bellied condition due to watery swellings on the body of the affected animals.**
 - **The animal suffer indigestion**
 - **Damage to the liver tissues and haemorrhage due to movement of flukes within the liver**
 - **Anaemic condition due to sucking of blood**
 - **Dullness and the animal appearing depressed**
 - **Swollen and painful abdomen**
 - **Recumbency precedes death**
2. State four control measures of beef tape worm. (2mks)
 - **Use of prophylactic drugs such as anti helminthes**
 - **Keep animal houses clean and disinfected**
 - **Practice rotational grazing and rest pastures to starve larvae to death**
 - **Keep the feeding and watering equipment clean**
 - **Use of latrines by farm workers**
 - **Proper cooking of meat**
3. State four ways of controlling lice in poultry. (2mks)
 - **Smearing the affected perches with volatile insecticide**
 - **Dusting birds with appropriate insecticides**
 - **Keep poultry house clean**
 - **Picking and killing**
4. State four signs of infestations by external parasites in goats. (2mks)
 - **Presence of sores/wounds on the skin**
 - **Irritation / scratching by the animal**
 - **Loss of hair**
 - **Anaemia**
 - **Presences of various developmental stages of the parasite on the animal.**
5. State four characteristics of roughage livestock feeds. (2mks)
 - **High fibre content**
 - **High carbohydrate content**
 - **Low protein content**
 - **Low in feed value**
6. State two functions of the crop in digestive system. (2mks)
 - **Store food temporarily**
 - **Moisten food with water**
7. State four factors that affect the digestibility of a feed in dairy animals. (2mks)
 - **Chemical composition of feed**
 - **Farm in which feed is offered**
 - **The ratio of energy to protein the higher the ratio the lower the digestibility.**
 - **Amount of feed already present in the digestive system**
8. State four functions of vitamins. (2mks)

- **Blood clotting**
- **Help in muscular activity**
- **Act as organic catalysts in various metabolic and physiological reactions**
- **Promotes growth**
- **Prevent diseases in animals**
- **Help in bone formation**

9. Prepare 100kg of pig ration containing 20% D.C.P using cereal balancer 10% D.C.P and cotton seed cake 30% D.C.P show your working. (4mks)

Cereal balancer 10%



10 parts of cereal balancer

Cotton seed cake 30%

10/20 parts of cotton seed cake total parts

Cereal balancer – $\frac{10}{20} \times 100 = 50\text{kg}$

Cotton seed cake – $\frac{10}{20} \times 100 = 50\text{kg}$

10. Define the term Health in livestock. (1mk)
- **A state in which all the body organs or parts and systems are considered normal and are functioning normally.**
- b. State four physiological parameters that can be used as indicators of ill health in livestock. (2mks)
- **Abnormal pulse rate**
 - **Abnormal breathing rate**
 - **Abnormal body temperature**
 - **Abnormal frequency of urination**
 - **Bloody urine**
 - **Reduced production**
 - **Loss of appetite (anorexia)**
 - **Abnormal dung e.g. too hard or too loose**

11. What are infectious diseases in livestock? (1mk)
- **Diseases that can spread from one animal to another**
- b. Name the causes of infectious diseases in livestock. (1 ½ mks)
- **Virus**
 - **Bacteria**

- **Protozoa**
 - c. Explain two different ways through which good nutrition can help to control diseases in livestock. (2mks)
 - **Improves body resistance against diseases**
 - **Keeps off nutrients deficiency diseases**
 - d. Define the term Quarantine. (1mk)
 - **Is the restriction of movement of animals and their products from and into the affected areas in the event of an outbreak of a notifiable disease.**
12. Identify the cabbage pest shown below. (1mk)
- b. Suggest three possible control measures for the pest. (3mks)
- **Scoop and destroy the pest**
 - **Use of suitable pesticides**
 - **Early planting**
 - **Field hygiene**
- c. Name two diseases of cabbage crop. (1mk)
- **Damping off**
 - **Black rot**
 - **Downy mildew**
 - **Dry rot canker (black leg)**
 - **Dark leaf spot**
13. State four factors considered when selecting a site for a tomato nursery bed. (2mks)
- **Nearness to the water source**
 - **Type of soil**
 - **Topography**
 - **Previous cropping**
 - **Security**
 - **Well sheltered place**
14. State three advantages of single stem pruning over multiple stem pruning. (1 ½ mks)
- **Allows easy picking**
 - **Allows easy spraying**
 - **Minimizes breakage of branches**
15. State four qualities of an ideal grain store. (2mks)
- **Leak proof**
 - **Rodent/vermin proof**
 - **Well ventilated**
 - **Easy to load and off load**
 - **Well secured to minimize theft**
 - **Easy to clean**
 - **Pest proof**
16. State four factors that determine the harvesting stage of a crop. (2mks)
- **Purpose of the crop or the used for which the crop was intended.**
 - **Market demand**
 - **Concentration of the required chemicals**
 - **Weather conditions**
 - **Prevailing market price and profit margins**

17. Give the importance of carrying out the following in a nursery bed. (1mk)
- Pricking out (1mk)
 - To allow seedlings to grow strong and healthy without much competition.**
 - Hardening off (1mk)
 - To prepare seedlings to adapt to the ecological conditions prevailing in the seedbed.**
18. Study the illustration in the diagram below and answer the questions that follow. (1mk)
- Identify the practice being illustrated. (1mk)
 - Transplanting/lifting of seedlings**
 - State three activities that should be carried out for successful results in the practice shown above. (3mks)
 - Watering thoroughly before lifting**
 - Lifting seedlings with a ball of soil on roots**
 - Lifting early in the morning/evening /cloudy day**
 - At what stage should the practice be carried out in vegetable seedlings. (1mk)
 - One month old / 4- 6 true leaves / 10-15cm in height**
19. State four advantages of row planting. (2mks)
- Machines can be used easily between rows**
 - It is easy to establish the correct plant population**
 - Lower seed rate is used than if broadcasting is adopted**
 - It is easy to carry out cultural practices such as weeding, spraying and harvesting**
20. State four factors considered in timing planting. (2mks)
- The rainfall pattern**
 - Type of crop to be planted**
 - Soil type**
 - Market demand**
 - Prevalence of pest and diseases**
 - Weed control**
21. State four aspects of rainfall that influence agriculture. (2mks)
- Rainfall reliability**
 - Intensity of rainfall**
 - Amount of rainfall**
 - Distribution of rainfall**
22. State four effects of applying excessive nitrogen in crop production. (2mks)
- Lodging**
 - Excessive succulence**
 - Relayed maturity**
 - Blossom end rot in tomatoes**
 - Cracking of fruits before maturity**
 - Excessive vegetative growth**
23. State two causes of hard pans. (2mks)
- Constant shallow cultivation or ploughing**
 - Continued ploughing using heavy machines when wet**
24. Name three tertiary operations carried out in land preparation. (1 ½ mks)
- Ridging**

- **Rolling**
 - **Leveling**
25. Name three types of pumps used by farmers. (1 ½ mks)
- **Semi-rotary pumps**
 - **Hydrams**
 - **Centrifigual**
 - **Piston/reciprocating**
26. Give four reasons for treating water before use. (2mks)
- **Remove bad smell**
 - **Kill diseases causing micro-organism/pathogen**
 - **Remove solid particles / impurities**
 - **Remove chemical impurities such as fluorides**
27. State four factors that affect the quality of farm yard manure. (2mks)
- **Type of animal**
 - **Type of food eaten**
 - **Type of bedding material**
 - **Method of storage**
 - **Age of farmyard**
28. Name four breeds of dairy goats. (2mks)
- **Toggenburg**
 - **Saneen**
 - **German alpine**
 - **Anglo nubian**
29. Give two types of labour records. (2mks)
- **Master roll**
 - **Analysis on the use of labour**
30. Define agricultural economics. (1mk)
- **Is an applied science carried out on maximizing the output and minimizing the cost of production by using scarce resources available.**