**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ADM NO: \_\_\_\_\_\_\_\_\_\_\_\_CLASS:\_\_\_\_\_\_\_\_\_\_**

**DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SIGN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

MARKS HERE

**AGRICULTURE FORM 2**

**TERM 3, 2023**

**INSTRUCTIONS:** *Answer all questions in the spaces provided*  **TIME: 1 ½ HOURS**

**1**. Differentiate between (3mks)

a) Straight and compound fertilizer

b) Over sowing and under sowing

c) Seed dressing and seed inoculation

2. Give three methods of breaking seed dormancy (3mks)

3. State four signs of infestation by external parasites in livestock (4mks)

4. Name the intermediate host for each of the following internal parasites. (2mks)

i)Tape worm (Taenia solium)

(ii) Liver fluke (Fasciola hepatica)

5. Name two groups into which vitamins are classified (2mks)

6. Give two characteristics of a livestock roughage feedstuff. (2mks)

7. Outline three functions of proteins in the body of an animal. (3mks)

8. Give four functions of calcium in dairy cow. (4mks)

9. State three factors that are considered when formulating a livestock ration (3mks)

10. (a) Explain the term “production ration” as used in livestock productions. (1mks)

b) State three factors which determine the amount of feed an animal can consume. (3mks)

11.(a) State three advantages of keeping a herd of dairy cattle health (3mks)

12. The diagram below shows crop rotation programme practiced on a virgin land for three seasons

|  |  |
| --- | --- |
| **PLOT A**  MAIZE | **PLOT B**  BEANS |
| **PLOT D**  POTATOES | **PLOT C**  CABBAGES |

Arrows show how crops were rotated after the first season (2mks)

1. Give one reason why
2. Maize was planted first in plot A

1. Irish potato was rotated with cabbage after the first season

1. Name two crops that can be planted in the place of Irish potatoes in the rotation programme(1mk)

13. A farmer wants to prepare a 100kg ration containing 20%DCP from wheat (10%DCP) and sunflower seed cake (35%DCP). Using Pearson’s square method, calculate the quantity of wheat and sunflower seed cake the farmer requires (3mks)

14. Giving an example, explain the five predisposing factors of livestock diseases (5mks)

15. Describe the life cycle of a three- host tick. (6mks)