



***“Investing in Africa’s future”***

**COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES**

**NACP 114: PRACTICAL AGRICULTURE II**

**END OF SECOND SEMESTER FINAL EXAMINATIONS**

**APRIL 2023**

**LECTURER: MR . L. KIES**

**DURATION: 3 HOURS**

## ANSWER ALL QUESTIONS

1 Write the answer only.

- Name the vaccine used to control Newcastle Disease.
- Name the organism that causes Newcastle Disease
- What is the term used for planting seeds in a plot to replace those that did not grow?
- What is the term for a young female chicken? (1 mark each, total 4 marks)

2 Explain the Seedco method of naming maize varieties, and why it is important that farmers buying Seedco maize seed understand the method. (5 marks)

3 Write brief notes about applying top dressing to maize including the following. Be sure to explain *why* something is done the way it is. You *may* use diagrams to help clarify.

-when (growth stages of the crop) (3 marks)

-where to apply the AN (3 marks)

4 Emmanuel keeps layers and sells the eggs for \$3.50 per tray of 30 eggs (2.5 dozen).

Layers concentrate costs \$33.00 per 50 kg.

Maize costs \$17 per 50 kg.

- Using the correct mixture of 2:3, how much will it cost to make 50 kg of layers mash using the above prices? (2 marks)

The production in his two houses on Monday is shown below.

Day	Number of birds in the house	Number of eggs	Laying percentage
House A	300	280	
House B	700	320	

- What was the laying percentage in each house? (2 marks)
- Use the answer from (a) to calculate the feed cost per dozen eggs for each house. Assume 120 g of feed per bird per day. (4 marks)
- Comment on the profitability of each house based on the cost of feed and the selling price of eggs. (2 marks)

5 Describe the procedure used to clean a knapsack sprayer after use. (3 marks)

6 Nicole had a house of broilers. She weighted a sample every week, and compared the weights with targets set by the feed company. The results are in the table below:

Age in weeks	0	1	2	3	4	5	6
Nicole's birds, g	45	95	150	300	550	800	1300
Target weights, g	45	110	226	518	932	1760	2200

- a. Detach the last sheet of this exam (p4, the graph paper). Use this graph paper to draw a graph showing the growth of the birds. Be sure to include the title and axis labels. (4 marks)
- b. Discuss possible problems that caused this flock to grow slowly, and possible solutions to those problems. (6 marks)

**Practical- To be done outside the lab.**

7 Use the designated scale to give the weights of the objects:

Digital scale: 8a. 8b.

White kitchen scale: 8c 8d

Black kitchen scale 8e 8f

(6 marks)

8 Give the names of the labeled tractor parts/systems:

- a.
- b.
- c.
- d.

(4 marks)

9 a. Give the heights of the labeled maize plants.

(2 marks)

b. Give the names of the crop plants.

(2 marks)

c. What are the uses of the chemicals c and d.?

(2 marks)

10 Describe the differences between the two chickens and tell why those differences are important. (You may remove the chickens from the cages one at a time if you wish to look at them more closely.) (5 marks)

11 Estimate the area of the small field marked.

Show all calculations, and give the answer in square meters *and estimated* in hectares. .... (5 marks)

Student Number \_\_\_\_\_

