

ANSWER ALL QUESTIONS.

1 Write the answer only.

- Name the vaccine used to control Newcastle Disease.
- Name one symptom of Newcastle Disease
- What animal is on the package of Seedco maize variety SC513?
- What is the term for a young female chicken? (1 mark each, total 4 marks)

2 Discuss the principles of thinning maize, including how it can be used to achieve the target population. (5 marks)

3 Use good, clear English to 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)
- symptoms of nitrogen deficiency (3 marks)

4 Munotida keeps layers and sells the eggs for \$4.00 per tray of 30 eggs (2.5 dozen).
Layers concentrate costs \$35.00 per 50 kg.
Maize costs \$118 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	400	380	
House B	900	480	

- 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 Explain the meaning of the cold chain when handling vaccines, and why it is important.

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(3 marks)

6 Esther 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 graph 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 all relevant labels. (4 marks)
- b. Describe how to use the sense of sight to assess whether young broilers are having suitable conditions (feed, water and temperature). (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.

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(5 marks)

Student Number _____

