



*“Investing in Africa’s future”*

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

**NAAS 403: NON RUMINANT ANIMAL PRODUCTION**

**END OF SECOND SEMESTER FINAL EXAMINATIONS**

**APRIL 2022**

**LECTURER: DR. S. CHAKEREDZA**

**DURATION: 3 HOURS**

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**INSTRUCTION**

1. Answer All Questions in Section A, and
2. Answer three Questions from Section B

**Section A (answer all, possible marks 40)**

1. List animal Feed Nutrients. [6]
2. Define Caecotrophy. [3]
3. What are the factors affecting the size of an egg? [8]
4. What are the factors affecting hatchability of eggs? [8]
5. What are the statutory requirements specified by law in milk quality assessment in Zimbabwe?  
[10]
6. What are the advantages of rabbit meat over other livestock species meat as used for human consumption? [5]

**Section B (Choose any 3, maximum possible marks 60)**

1. Discuss the advantages and disadvantages of rabbit keeping under smallholder farmer conditions of sub-Saharan Africa. [20]
2. Trace how feed energy is utilized in the body indicating the losses which occur from energy intake until net energy utilization.  
[20]
3. Discuss the advantages and disadvantages of pig production in tropical and subtropical conditions. [20]
4. Compare and contrast the extensive free-range systems of poultry raising in the tropics and subtropical regions.  
[20]
5. Describe the stages in the signs of heat in a sow/gilt and comment on the recommended practices during heat period. [20]

**END OF EXAMINATION PAPER**