



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF AGRICULTURAL SCIENCES**  
**DEPARTMENT OF ANIMAL SCIENCE AND FISHERIES**  
**POP 2021\_1**

**COURSE CODE:** ANP 301

**COURSE TITLE:** Introduction to Non-Ruminant Animal Production

**CREDIT UNIT:** 2 CU

**TOTAL SCORE:** 70 MARKS

**TIME ALLOWED:** 2 Hours

**INSTRUCTIONS:** ANSWER QUESTION 1 (30 MARKS) AND ANY OTHER TWO (20 MARKS EACH)

1. (a) What is culling? (3 marks)
  - (b) Why is the practice of culling desirable in a pig farm? (4 marks)
  - (c) List the items that constitute hutch equipment (4 marks)
  - (d) Briefly describe how you can prolong the shelf-life of eggs. (10 marks)
  - (e) What are the features you will observe in a flock to warrant culling in a pig farm? (9 marks)
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2. (a) What are the stresses that confront pigs while transporting pigs to slaughter houses? (12 ½ marks)
  - (b) What are the characteristics of a good kindling box? (7 ½ marks)
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3. Write short notes on the following pig slaughter procedures:
    - i. Bleeding (7 marks)
    - ii. Scalding and de-hairing (7 marks)
    - iii. Evisceration (6 marks)
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4. (a) Describe how you will manage pigs in a lairage. (10 marks)
  - (b) What are the characteristics of a good water and food trough for rabbits? (10 marks)