



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF AGRICULTURAL SCIENCES & FISHERIES**  
**DEPARTMENT OF ANIMAL SCIENCE & FISHERIES**  
**2020\_2 EXAMINATION**

**ANP 301 2020\_2 EXAMINATION QUESTIONS**

**ANP 301- Introduction to Non-Ruminant Production (2 UNITS)**

**INSTRUCTIONS** Answer question one (25 marks) and any other 3 questions (15 Marks)

**TIME:** 2 hours

1. (a) Draw and label the digestive system of a rabbit.  
(b) Name four breeds of exotic pigs found in Nigeria  
(c) List eight management practices that can cause pathogenic invasion in a poultry farm.  
(d) What are vitamins?
2. (a) What are the major factors to be considered when designing a pig house?  
(b) Differentiate between “exotic” and indigenous breeds of chicken reared in Nigeria.
3. (a) Describe how you will manage a piglet immediately after birth.  
(b) Give four examples each of fat-soluble and water-soluble vitamins for chickens
4. Outline a vaccination regime for the following poultry diseases:
  - i. Newcastle disease
  - ii. Mareks
  - iii. Gumboro (Infectious Bursal disease)
  - iv. Fowl cholera

5. Write short notes on the following practices in rabbit production:

i. Mating

ii. Kindling

iii. Sexing young rabbits.

6. (a) List the different parts of the female reproductive system of rabbits

(b) What are the advantages and disadvantages of the integrated system of pig rearing?