



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
*University Village, Nnamdi Azikiwe Expressway, Plot 91, Cadastral Zone, Jabi, Abuja*  
**Faculty of Agricultural Sciences**  
*POP Exam Question 2021\_2*

**Course Title: Monogastric Nutrition**

**Course Code: ANP 505**

**Credit Unit: 2**

**Total Score: 70 Marks**

**Time Allowed: 2 Hours**

**INSTRUCTION: Answer Compulsory question 1 (30 marks) and any 2 questions (20 marks each)**

**Question one**

- a) Define nutrient requirements (2 marks)
- b) Using a table outline four (4) differences between monogastric and ruminant digestive tract (8 marks)
- c) Give two (2) functions of saliva in swine nutrition (2 marks)
- d) Examine six (6) functions of the digestive system of poultry (6 marks)
- e) Discuss four (4) main types of processing method (12 marks)

**Question two**

- a) Mr Bala noticed the feeding behavior of his animals changes sometimes; suggest five (5) elements which may affect feeding behaviour in monogastric animals (15 marks)
- b) Evaluate feeding behavior in poultry (5 marks)

**Question three**

- a) Identify four (4) factors that determine the nutritive potential of a feedstuff (4 marks)
- b) Why do commercial feed millers include feed additives in their feeds; Give nine (9) reasons. (9 marks)
- c) State the meaning of
  - i. Antifungal agents (4 marks)
  - ii. Browning (3 marks)

**Question four**

- b) A large farm complained about the quality of their water; discuss six (6) factors that may affect water quality. (18 marks)
- a) Mention two (2) main sources of water available to monogastric animals (2 marks)