

## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF ANIMAL SCIENCES AND FISHERIES 2023 1 EXAMINATIONS...

Course Title: Introduction to Animal Products Processing and Preservation

Course Code: ANP 303.

Credit Unit: 2

Total Score: 70 Marks Time Allowed: 2Hours INSTRUCTION:

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

- 1. a) What do you understand by the term 'Animal products and Animal by-products (6 marks)
  - b) By-products from internal part of the animal are very useful to man, elaborate on eight (8) of these uses (8 marks)
  - c) Postnatal growth may be affected by many factors, discuss any three (3) endogenous factors (6 marks)
  - d) What is the function of somatic cell count in milk quality (4 marks)
  - e) Mr Daniel an intending poultry farmer with special interest in layers, wants you to explain egg production in layers. Write down your explanation to him (6 marks)
- 2. a) The meat value chain consists of sale and production of meat; describe the way this value chain operates in Nigeria (8 marks)
  - b) State the methods you will use to cook your meat (12 marks)
- 3. a) Define the term ovulation (1 mark)
  - b) As a bulk marketer of eggs, how would you preserve, clean, handle and store your eggs. (10 marks)
  - c) Good quality milk must be free of various residues, discuss any three (3) of the residues (9 marks)
- 4. a) Describe the Pasteurization, homogenization and separation processes in milk products production (12 mark)
  - b) Explain the two (2) types of smoking techniques we have (8 marks)