

NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Nnamdi Azikiwe Expressway, Plot 91, Cadastral Zone, Jabi, Abuja

Faculty of Agricultural Sciences

POP Questions 2021_7836

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)

Question one

- a) With the help of a labelled diagram, show the structure of an egg (5 marks)
- b) State five (5) relevance of somatic cell count (5 marks)
- c) State five (5) ways Mr Sani can use his animal by-products of external origin (5 marks)
- d) Briefly describe the three (3) types of muscle found in animals (9 marks)
- e) Mention two (2) types of meats NOT suitable for sun drying (1mark)
- f) Highlight five (5) characteristics of prenatal growth (5marks)

Question two

- a) Give an overview of the egg industry in Nigeria (12 marks)
- b) Briefly describe egg production in chicken (5 marks)
- c) State the meaning of Mastitis (3 marks)

Question three

- a) Mrs Asabe discussed with you as an Animal science student that her milk sometimes come with odour: explain to her seven (7) possible causes of flavour and odour problems in milk (7marks)
- b) Explain the following terms
 - i. Animal products and animal by-products (4 marks)
 - ii. Slaughterhouse by-products (3 marks)
- c) Outline three (3) useful indicators of maturity of an animal (6 marks)

Ouestion four

- a) Outline five (5) factors influencing prenatal growth in animals (10 marks)
- b) Describe the following cooking methods of meat
 - i. dry-heat
 - ii. moist-heat
- iii. microwave (9 marks)
- c) Mention two (2) ingredients in milk that make it nutritionally valuable (1 mark)