



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Nnamdi Azikiwe Expressway, Plot 91, Cadastral Zone, Jabi, Abuja
Faculty of Agricultural Sciences
Second Semester POP Exam Question October 2019

Course Title: Monogastric Nutrition

Course Code: ANP 505

Credit Unit: 2

Total Score: 70 Marks

Time Allowed: 2 Hours

INSTRUCTION:

Answer Compulsory question 1 (25 marks) and any 3 questions (15 marks each)

Question one

a) Differentiate between

- i. mash and meal
- ii. balanced ration and ration
- iii. nutrient allowances and nutrient requirements
- iv. protein and amino acids

(8 marks)

b) Write short notes on the nutritional limitations of monogastric animals (7 marks)

c) Highlight five (5) functions of feed additives (5 marks)

d) Outline three (3) symptoms of amino acid and protein deficiency in poultry (3 marks)

e) List four (4) types of feed formulation method (2 marks)

25 marks

Question two

a) Briefly explain five (5) factors affecting feeding behaviour in monogastric animals (10marks)

b) Identify five (5) basic functions of the digestive system of poultry (5marks)

Question three

a) Define feeding standards (2 marks)

b) Identify five (5) limitations of feeding standard (5 marks)

C) Discuss the importance of fibre in poultry nutrition (8 marks)

Question four

- a) Give the meaning of nutritional deficiency (1 mark)
- b) Briefly explain Iodine deficiency in swine (5marks)
- c) Mention three(3) symptoms of protein deficiency in rabbit (3 marks)
- d) Discuss Aflatoxin-induced symptoms in poultry (6 marks)

Question five

- a) Suggest two(2) reasons for which feedstuffs are processed (2 marks)
- b) Briefly explain browning (3 marks)
- c) Identify five (5) factors to consider in ration formulation (5 marks)
- d) Evaluate five(5) effects of heating processing method on feedstuffs (5 marks)

Question six

- a) Evaluate three (3) main sources of water available to monogastric animals (6 marks)
- b) Identify nine (9) factors that influence water intake in monogastric animals (9 marks)