



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Nnamdi Azikiwe Expressway, Plot 91, Cadastral Zone, Jabi, Abuja
Faculty of Agricultural Sciences
First Semester POP Exam Question September 2020_1

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) Define
 - i. Feed allowance
 - ii. Feed Toxins
 - iii. marginal safety
- b) State the importance of ration formulation
- c) Highlight seven (7) nutritional limitations of monogastric animal
- d) Explain seven (7) benefits of fibre in poultry diets
- e) Mention two (2) role of saliva in swine nutrition
- f) Explain vitamin A and E deficiencies in rabbit production **25 marks**

Question Two

- a) Explain four (4) factors that affect utilization and digestibility of feeds in poultry
- b) What is nutritional deficiency ?
- c) Outline four (4) symptoms of amino acid and protein deficiency in poultry **15 marks**

Question Three

- a) Describe seven (7) basic functions of the digestive system of poultry
- b) Enumerate six (6) parts of the digestive system of poultry
- c) Briefly explain Aflatoxin toxicity in poultry **15 marks**

Question Four

- a) Briefly explain Zearalenone Toxicity in Swine
- b) Describe the pathway of feed to the point of exit in swine **15 marks**

Question Five

- a) Give the meaning of browning 3 marks
- b) State the meaning of Growth promoters and give four (4) examples of Growth promoters 5 marks
- c) Explain protein deficiency in swine **15 marks**

Question Six

- a) Identify six (6) importance of water in monogastric nutrition
- b) Briefly explain nine (9) factors that influence water intake in monogastric animals **15 marks**