



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Nnamdi Azikiwe Expressway, Plot 91, Cadastral Zone, Jabi, Abuja
Faculty of Agricultural Sciences
POP Questions 2021 _2_

Course Title: Animal Production Resources

Course Code: ANP 511

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) State three (3) significances of feeds in animal nutrition (3marks)
- b) Outline five (5) effects of water on feed/feed ingredients (5 marks)
- c) Discuss four (4) hot processing methods (12 marks)
- d) Elucidate five (5) reasons why cereals are important in animal production (5marks)
- e) State the nutritional value of syrups (5 marks)

Question two

- a) Carbohydrates are said to be indispensable in livestock feeds; discuss the relevance of this nutrient in livestock feeding (8 marks)
- b) Critically examine seven (7) reasons why water is important to animals (7marks)
- c) State the nutritional value of soyabean (5 marks)

Question three

- a) A potential farmer wants to know what are dry forages and roughages; explain to him seven (7) identifying features of this group of feedstuff (7marks)
- b) Highlight five (5) factors affecting utilization of roughages (5 marks)
- c) Discuss eight (8) reasons why you would include ingredients like soyabean, green peas, faba beans and bambara beans in your livestock feed. (8 marks)

Question four

- a) What do understand by additives; Outline five (5) benefits of this product in feeds (6 marks)
- b) What are the factors affecting the utilization of (a) above. (4 marks)
- c) How would you identify plant proteins (10 marks)