



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Nnamdi Azikiwe Expressway, Plot 91, Cadastral Zone, Jabi, Abuja
Faculty of Agricultural Sciences
POP Questions 2021_2₇₈₃₆

Course Title: Ruminant Animal Production

Course Code: ANP 509

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) Identify two (2) differences between ruminants and other animals (4 marks)
- b) Discuss five (5) advantages of small ruminants over other ruminants (15 marks)
- c) State another name for Parturition in cattle, sheep and goats (3 marks)
- d) How would you manage a calf from birth to weaning? (8 marks)

Question two

- a) Discuss how carbohydrates are digested in ruminants (8 marks)
- b) Highlight three (3) benefits of ruminant digestion process. (3 marks)
- c) Explain to a potential farmer nine (9) distinguishing features of the White Fulani (Bunaji) cattle breed (9 marks)

Question three

- a) Mr Yakubu wants to prevent his animals from disease; explain to him five (5) general measures of disease prevention (5 marks)
- b) How would you convince a livestock farmer of the importance of sheep/goat housing unit? (15 marks)

Question four

- a) Mr Baba met you as an animal science student and wants you to explain to him causes of disease in his cattle; elucidate five (5) possible causes of diseases in his cattle (15 marks)
- b) How would you identify signs of parturition in cattle? (5 marks)