

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

POP Questions 2021\_27856

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)