



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
*University Village, Nnamdi Azikiwe Expressway, Plot 91, Cadastral Zone, Jabi, Abuja*  
**Faculty of Agricultural Sciences**  
*POP Questions 2021\_1*

**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) Give the meaning of ruminant animals (2marks)
- b) Mr Bawa has some lactating goat and sheep; what will be your advice to him as to the feeding of these animals (5marks)
- c) Outline six (6) properties of milk (6 marks)
- d) Describe Mastitis disease, state the signs, prevention and control (7 marks)
- e) How would you manage milking cows (10 marks)

Question two

- a) In recent times the Nigerian government wants to increase her agricultural potential; discuss five (5) points you would use to convince a potential livestock farmer to get started and establish his farm. (15 marks)
- b) Describe any one of Nigerian's indigenous goat breed (5 marks)

Question three

- a) As an animal science student you visited a farm during your industrial attachment; discuss six (6) symptoms of ill-health in animals (12marks)
- b) How would you feed adult sheep and goat (3 marks)
- c) Outline five (5) main operations you would carry out in calf management (5 marks)

Question four

- a) Describe the characteristics of Muturu cattle breed (5marks)
- b) Discuss five (5) reasons you would use to advocate for increased cattle production in Nigeria (15 marks)